

AMENDMENT

In the Specification

On page 50, please amend the paragraph beginning [00316] with the following:

1. Combine in a microfuge tube:

1 ug total RNA/8ul DEPC treated water (Ambion #9922)

2ul (1 ug) Oligo d(T)22 -- T7 (Operon, 5'TCT AGT CGA CGG CCA GTG AAT TGT AAT ACG ACT CAC TAT AGG GCG 3') (SEQ ID NO: 385)

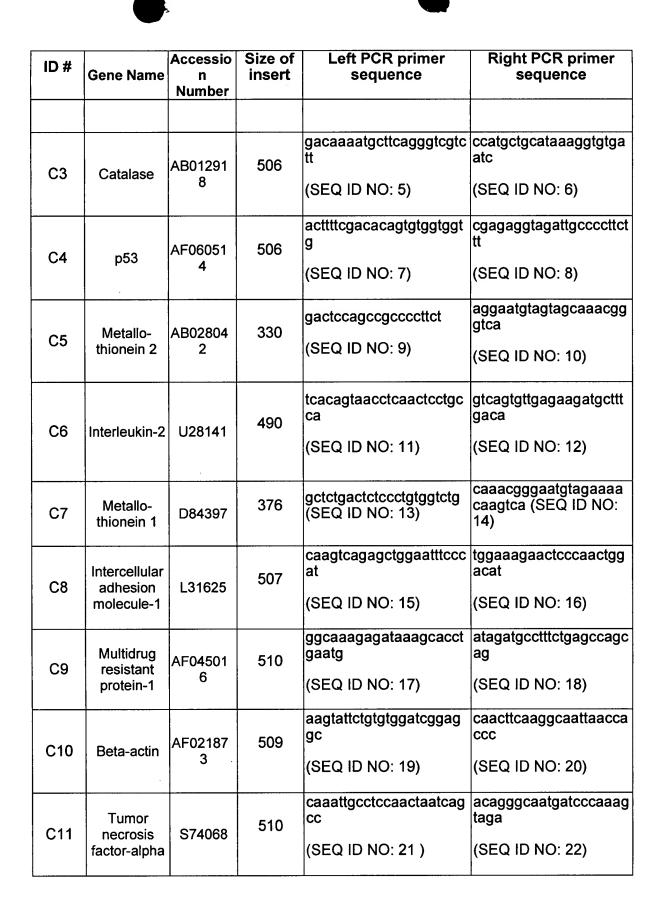
On page 50, the paragraph beginning [00322] has been amended as follows:

1ul Template Switching Primer (1ug/ul) (Operon, 5'-AAG CAG TGG TAT CAA CGC AGA GTA CGC GGG-3') (SEQ ID NO: 386)

Please substitute **TABLE 1** with the **TABLE 1** amended as follows:

TABLE 1

ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C1	с-тус	X95367	503	caagaggacgaagaagaaa ttgatgtt (SEQ ID NO: 1)	cgcttccgcaacaagtccttt (SEQ ID NO: 2)
C2	c-erb B-2	AB00845 1	507	gtgtttgatggtgacttgggaat g (SEQ ID NO: 3)	gtactccgggttctctgctgtag g (SEQ ID NO: 4)





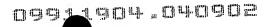


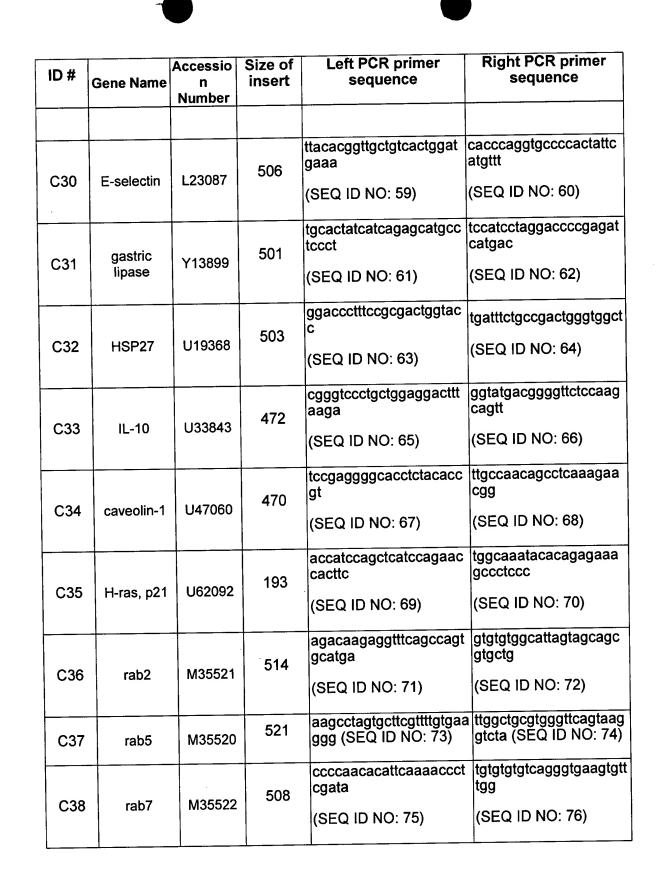
ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
-	Nitric oxide	AF07782	510	gtccttgcatcctcattggacct	gctgttttgctgcaccatcttttt
C12	synthase-1, inducible	1	310	(SEQ ID NO: 23)	(SEQ ID NO: 24)
040	DD04.4	1150700	499	tttctgggtattgcaggaggaa aa	agtctgcagcagttctgggaat ct
C13	BRCA-1	U50709		(SEQ ID NO: 25)	(SEQ ID NO: 26)
044	Metallo-	AB02804	385	ctgtgacagcattggagcttctt g	tttacatgagtgtcaccaccac ca
C14	thionein-IV	1		(SEQ ID NO: 27)	(SEQ ID NO: 28)
	Tumor necrosis	AF01395	507	ggctctgttgttggaaatatacc cc	cagttcacacaagagacgca ttca
C15	factor receptor	5		(SEQ ID NO: 29)	(SEQ ID NO: 30)
C16	c-kit	AF09903 0	504	gagacttggctgctagaaatat cctcc (SEQ ID NO: 31)	aattgatccgcacggaatggt (SEQ ID NO:32)
047	OD 40 5	AF08671	508	ccaatttgaagcctttctcaagg a	gagtaagccaaaagacgtg aagcc
C17	CD40 ligand	1		(SEQ ID NO: 33)	(SEQ ID NO: 34)
		AF13706	508	tgaatgcacacatgacttcttgg a	tgatggatacactgcatactct gcg
C18	Cubilin	8		(SEQ ID NO: 35)	(SEQ ID NO: 36)
	Alkaline	ÁF14941	499	cagatgtggagtatgagatgg acga	agaccaaagatagagttgcc ccg
C19	phospha- tase	7		(SEQ ID NO: 37)	(SEQ ID NO: 38)
	Pancreatic		490	actcagagagcatcctcaacc ctg	cagaagctgtgcactgttttctc
C20	lipase	1 101.35.307		(SEQ ID NO: 39)	(SEQ ID NO: 40)





ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C21	Apolipoprote	M17178	236	agccctggaggaagaggacc cct	cagaggctggagttggtttgg cc
021	in CIII	W117170		(SEQ ID NO: 41)	(SEQ ID NO: 42)
C22	Interleukin-4	AF05483	301	tcacctcccaactgattccaact ctgg	gtcttgtttgccatgctgctgag gttc
OLL	interiodiții 4	3		(SEQ ID NO: 43)	(SEQ ID NO: 44)
C23	Tissue inhibitor of metalloprote inases-1	AF07781 7	492	cttgtgcaactcccaaatcgtca tca (SEQ ID NO: 45)	cag (SEQ ID NO: 46)
C24	Ubiquitin	AB03202	341	gcagatttttgtaaagaccctga cggg	acttcttcttgcggcagttgaca gcac
02.	O Diquian	5		(SEQ ID NO: 47)	(SEQ ID NO: 48)
C25	Matrix metallo-	AF09563	9563 260	agcggtcagtgtgaaggaggt gg	tgtcccagggcacgatgaagt ca
023	proteinase-2	8		(SEQ ID NO: 49)	(SEQ ID NO: 50)
C26	Interleukin-6	U12234	493	cctggtccagatgctaaagag caaggt	acctggctccgaaacatcga ggatatt
020	inteneukin-o	012254		(SEQ ID NO: 51)	(SEQ ID NO: 52)
C27	Vascular cell adhesion	U32086	517	tggaatttgaacccaaacaaa ggca	cccgcatcctctaactggacct tgt
021	molecule 1 (VCAM-1)	032000		(SEQ ID NO: 53)	(SEQ ID NO: 54)
000	Phenol	495	gctccccagaccttgttggatc	gcatcaaagcgctcattctgg gc	
C28	sulfotrans- ferase	D29807		(SEQ ID NO: 55)	(SEQ ID NO: 56)
620	CDD04	4 U01153 503	503	aatcccagacatcccctgatca aagac	cacttctttctgtgacccacaat ccca
C29	GRP94		(SEQ ID NO: 57)	(SEQ ID NO: 58)	





ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
000	4.DO OII		256	ctggttctgttgcttgtcctcctgg ta	ggtcagtgaaaatccctgcgt aagtgc
C39	APO CII	M17177		(SEQ ID NO: 77)	(SEQ ID NO: 78)
040	1.11.2	V57000	330		ggagtagggacaacaccca gccg
C40	endothelin-2	X57038		(SEQ ID NO: 79)	(SEQ ID NO: 80)
C41	FGFR2	AF21125	498	tgattgttcttctgccaccaaaat gcc	taaatacagaacgcacaaca cggcgac
C41	FGFR2	7		(SEQ ID NO: 81)	(SEQ ID NO: 82)
C42	leptin	AB02098 6	503	gccttaccctcagggaccttgc a (SEQ ID NO: 83)	gcatgaacaaaacagcctcc gcc (SEQ ID NO: 84)
C43	prosta- glandin D	AB02698	510	aggtgtccctgcagcccaactt c	gggcggcggtcacctacttgtt c
043	synthase	8		(SEQ ID NO: 85)	(SEQ ID NO: 86)
C44	paraoxo- nase-2	L48515	472	caggactccacagcttttcccc agata	ggtgaaatattgatcccatttgc tgca
044	(PON2)	L40313		(SEQ ID NO: 87)	(SEQ ID NO: 88)
C45	beta-	AF01975	493	cgccgtatgtggacgtcatctgt gt	agacagaggcttcagagggc gaacg
043	dase	9		(SEQ ID NO: 89)	(SEQ ID NO: 90)
C46	AF03922	359	ctccaggtgggcttcgaggac gt	tggggtccaagtgctcagtcgt g	
U40	caveolin-2	3		(SEQ ID NO: 91)	(SEQ ID NO: 92)
C47	matrix metallo-	AF03202	350	ttcttcaaaggagacaagcact gggtg	tagcctggctctaccttcagctt ctgg
047	proteinase- 14	5		(SEQ ID NO: 93)	(SEQ ID NO: 94)

ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C48	matrix metallo-	AB00642	471	gattctccaagggcaagggac gc	tcacgtagcccacttcgtccac c
	proteinase-9	•		(SEQ ID NO: 95)	(SEQ ID NO: 96)
C49	IL-8	U10308	498	gtggcccacattgtgaaaactc agaaa	gaccaaggcaaggttgaaa agggactc
				(SEQ ID NO: 97)	(SEQ ID NO: 98)
C50	keratinocyte growth	U80800	482	caatgacatgactccagagca aatggc	ttgccataggaagaaagtgg gctgttt
	factor	000000		(SEQ ID NO: 99)	(SEQ ID NO: 100)
C51	decorin	U83141	505	gattgaaaatggagccttccag ggaat	ataatttccaagctggatggca gagcg
		000111		(SEQ ID NO: 101)	(SEQ ID NO: 102)
C52	glucose-6- phospha-	U91844	508	ctggggatctcagctgcaggat tttct	atcettteeteteettgeeetete etc
	tase	001011		(SEQ ID NO: 103)	(SEQ ID NO: 104)
C53	TGFB-1	L34956	489	gaccettcetgeteetcatggee	cttaaatacagcccggcgca gcg
000	1313-1	L34930		(SEQ ID NO: 105)	(SEQ ID NO: 106)
C54	ZAP36/	D38223		•	ccagatgtgtcacccttgatga aggag
034	annexin IV	D30223		(SEQ ID NO: 107)	(SEQ ID NO: 108)
C55	N-ras	U62093			gcaaatacacagaggaagc cttcgcc
	14143 002033		(SEQ ID NO: 109)	(SEQ ID NO: 110)	
C56	K-ras	U62094			ggcaaatacacaaagaaag ccctccc
	Kido	302037		(SEQ ID NO: 111)	(SEQ ID NO: 112)

ID#	Gene Name	Accessio n Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C57	p38 MAPK	AF00359 7	506	ctggtgacccatcttatgggag cagat (SEQ ID NO: 113)	tttgcaaagttcatcttcggcat ctgg (SEQ ID NO: 114)

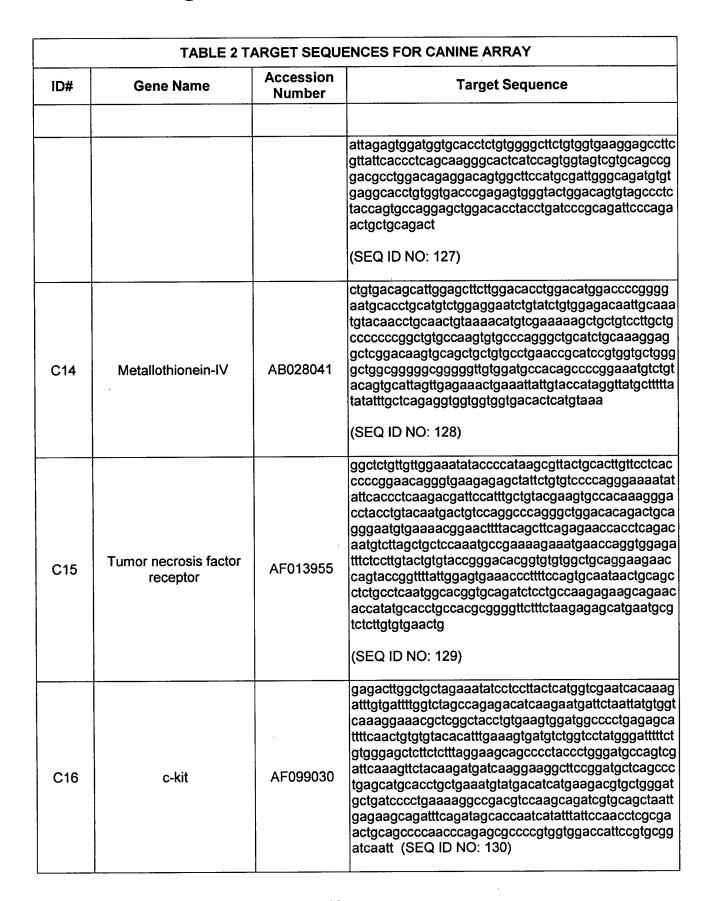
Please substitute TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY, with TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY amended as follows:

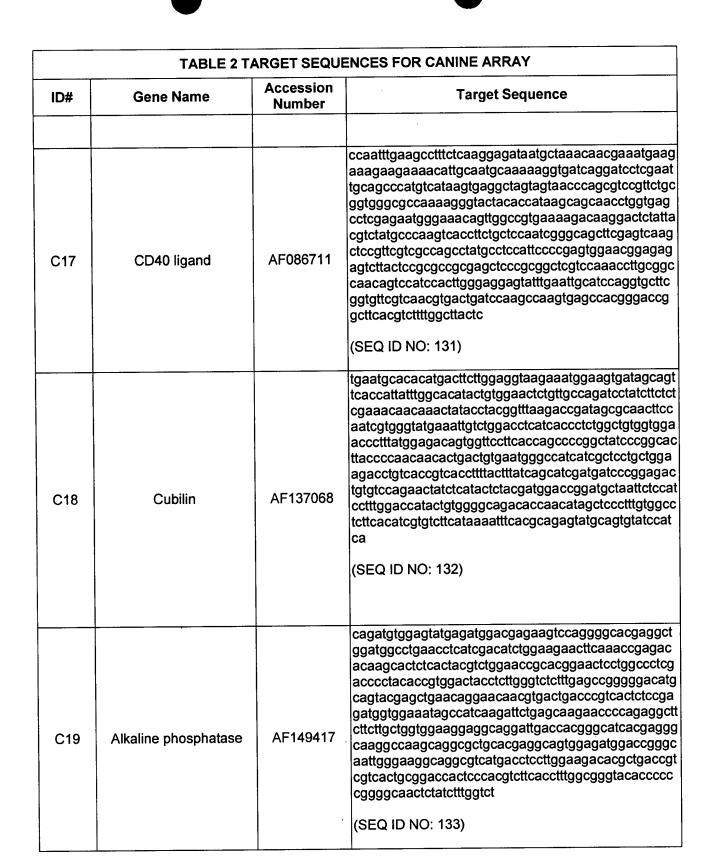
	TABLE 2	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY			
ID#	Gene Name	Accession Number	Target Sequence		
C1	c-myc	X95367	caagaggacgaagaagaaattgatgttgtttctgtggaaaaaaggcag gccctgccaaaaggtcgaatcggggtcccctctgctggaggccac agcaaactcctcacagcccactggtccttaagagatgccatgtgtcca cccatcagcacaactacgcggcaccccctccaccaggaagga		
C2	c-erb B-2	AB008451	gtgtttgatggtgacttgggaatgggggcagccaaggggctgcagagccttccctcacaggaccccagcctctccagcggtacagtgaggaccctacggtacccttgcccctgagactgatggtaaggttgccccctgacctgcagcccccagcctgaatatgtgaaccagccag		

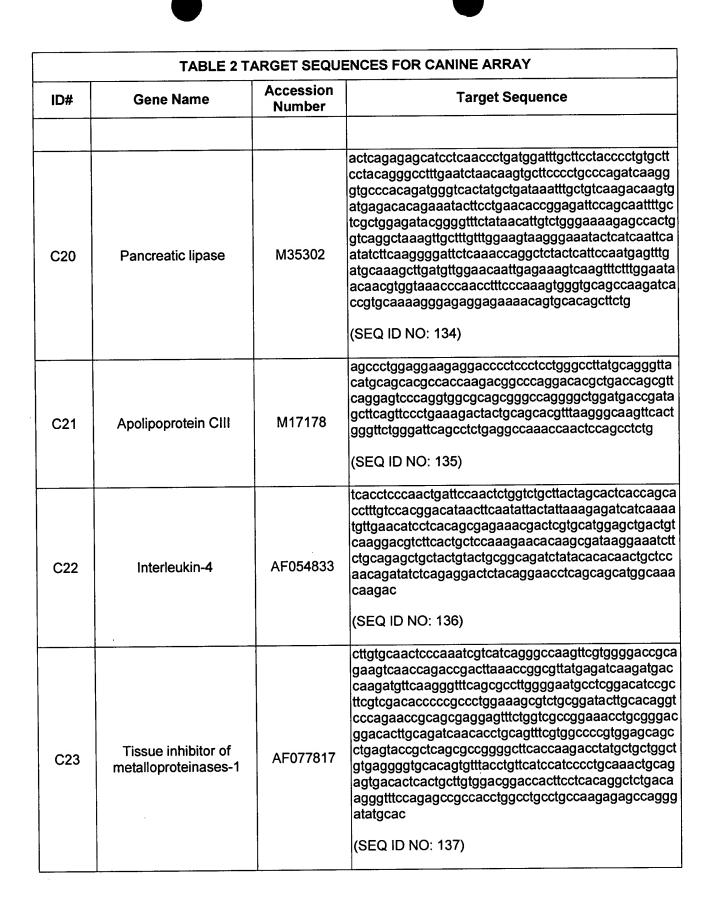
	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C3	Catalase	AB012918	gacaaaatgcttcagggtcgtctttttgcctatcctgacactcaccgccac cgcctgggacccaactatcttcagatacctgtgaactgtcctttccgggct cgagtggccaactaccaacgggatggccccatgtgcatgctcgacaat cagggtggtgctccaaattactaccccaatagctttagtgctcctgaaca acagcgttgtgtcctagagcatagcagccaatgttcgccagatgtgcag cgcttcaacagtgccaatgaagataatgtcactcaggtgcgaccttct atttgaaggtacttggtgaagaggaaggaaacgcctgtgcgagaac attgctggccatctgaaggacgcacaacttttcatccagaagaaagcg gtcaagaacttcagtgatgtccaccctgactacggggcccgcattcagg ctcttttggacaaatacaatgctgagaaacctaagaacgcgattcacac ctttatgcagcatgg		
C4	p53	AF060514	acttttcgacacagtgtggtggtgccttatgagccacccgaggttggctct gactataccaccatccactacaactacatgtgtaacagttcetgcatggg aggcatgaaccggcggcccatcctcactatcatcaccctggaagactc cagtggaaacgtgctgggacgcaacagctttgaggtacgcgtttgtgcctgtcccgggaggagcctgtctgagcacccccgggagtaccaagcgagcactgcctcccagcaccagctctctccccggagtaccaagcgagcactgatgagagaatatttcaccagcaccactcagatcgtggggagaacgctatgagatgttcaggagaatatttcacccttcagatccgtgggcgtgaacgctatgagatgttcaggaatctgaatgaa		
C5	Metallothionein 2	AB028042	gactccagccgcccttctcgccatggatcccaactgctcctgcgccgc gggggggctcctgcacgtgcgccggctcctgcaaatgcaaagagtgca gatgcacctcctgcaagaagagctgctgctcctgctgccccgtgggctg tgccaagtgtgcccagggctgcatctgcaagggcgcatcggacaagt gcagctgctgtgcctgatgtgggggagagcctattcctgatgtaaataga gcgacgtgtacaaacctacagtttgtgggggggttttttggtgcttttttgttttg ggtccaactctgacccgtttgctactacattcct (SEQ ID NO: 119)		
C6	Interleukin-2	U28141	tcacagtaacctcaactcctgccacaatgtacaaaatgcaactcttgtctt gcatcgcactgacgcttgtacttgtcgcaaacagtgcacctattacttcaa gctctacaaaggaaacagagcaacagatggagcaattactgctggatt tacagttgcttttgaatggagttaataattatgagaacccccaaactctcca ggatgctcacatttaagttttacacgcccaagaaggccacagaatttac acaccttcaatgtctagcagaagaactcaaaaacctggaggaagtgct aggtttacctcaaagcaaaaacgttcacttgacagacaccaaggaatt aatcagcaatatgaatgtaacacttctgaaactaaagggatctgaaac aagttacaactgtgaatatgatgacgagcagcaaccattacagaattt		

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY			
ID#	Gene Name	Accession Number	Target Sequence	
			ctgaacaaatggattaccttttgtcaaagcatcttctcaacactgac (SEQ ID NO: 120)	
C 7	Metallothionein 1	D84397	gctctgactctccctgtggtctgcctgggacctccgtcctcgcctc gcctcgcctc	
C8	Intercellular adhesion molecule-1	L31625	caagtcagagctggaatttcccattccattggctaagctgctttcctccag aggaggactggcaatggtgatacagtttagttggcgacatgcccaggg acaacccactgagccccatactcctccccgtcactgacactgacctctg ttagccgtctctctccccatacgcatctctgctagtgctcacgatgacatcg ctgcatgcctgaacacgaatgaccactcactggcagctaaactgtgga gtcccatgaaactgcccaacccctatgtgtccctgctggtcctgtttccatctggtggcaccatacaaggacacagcactctggcagcccaaattcctgcagagacgagggccctgcaggcag	
C 9	Multidrug resistant protein-1	AF045016	ggcaaagagataaagcacctgaatgtccagtggctccgagcacacct gggcatcgtgtctcaggagcccatcctgtttgactgcagcattgccgaga acattgcctatggagacaacagccgggtcgtatcacatgaagagatta gcaggcagccaaggaggccaacatacaccacttcatcgagacactc cctgagaaatacaacaccagagtaggagacaaaggaacccagctc ctggtggccagaaacagcgcattgccatagctcgcgctcttgttagaca gcctcatattttgcttttggatgaagctacatcagctctggatacagaaag gaaaaggttgtccaagaagccctggacaaagccagagaaggccgc acctgcattgtgatcgcccaccgcttgtccaccatccagaatgcagattt aatagtggtgtttcagaatggcaaagtcaaggagcatggcacacatca acagctgctggctcagaaaggcatctat	
			(SEQ ID NO: 123)	

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C10	Beta-actin	AF021873	aagtattctgtgtggatcggaggctccatcctggcctcgctgtccaccttc cagcagatgtggatcagcaagcaggagtacgacgagtcgggcccct ccatcgtccatcgcaaatgcttctagatcgactgcgagcagatgcgtag catttgctgcatgagtgaattccgaagtataaattggccctggcaaatgg ctagcctcatgaaactggaataagcgctttgaaaagaaatttgtccttga agctngtatctgatatatcagcantggattgtagaacttgttgctgatcttg acnttgtatccaagttaactgttcccttggtatatgtttaataccgcctattcc aggattctctagaggctggcaagagtctgaaccagttgtcatttctgtcttg ccggtctaacagggttgggaaggtccgagccttaggacccactttcctgt cttacccaatgttttcctgccagaacaccgtgggtggttaattgccttgaa gttg (SEQ ID NO: 124) caaattgcctccaactaatcagccctcttgcccagacagtcaaatcatct		
C11	Tumor necrosis factor- alpha	S74068	tctcgaaccccaagtgacaagccagtagctcatgttgtagcaaacccc gaagctgaggggcagctccagtggctgagccgacgtgccaatgacct cctggccaatgacgtgagctgacagacaaccagctgatagtgccgtc agatgggttgtacctcgatagctcccaggtcctcttcaagggccaaggg tgccttccacccatgtgctcctcacccacaccatcagccgcttcgccgt ctcctaccagacaaaggtcaacctactctctgccatcaagagcccttgc caaagggagaccccagagggaaccgaggccaagccctggtacga gcccatctacctgggaggggtcttccaactggagaagggtgatcgact cagcgctgagatcaatctgcctaactatctggactttgccgagtctggc aggtctactttgggatcattgccctgt (SEQ ID NO: 125)		
C12	Nitric oxide synthase-1, inducible	AF077821	gtccttgcatcctcattggacctggcacaggcatcgccccttccgcagtt tctggcagcagcggctccatgacatcaagcacaaagggctccggggc agccgcatgaccctggtgtttgggtgccgccgcccagatgaggaccac ctgtatcgggaggagatgttggagatggcccagagtggggtgctgcat gaggtgcacacagcctattctcgcctgcctggccagcccaaggtctatg ttcaagacatcctgcggcagcagctggccagccaggtgctccgcatgc tccatgaggagcagggccacctttatgtctgtggggatgtgcgtatggcc cgggatgtggcccataccctgaagcacctggtggctgccaagctgagc ctgagtgaagagcaagttgaggactattttttccagcttaagagccaga agcgctatcatgaagatatctttggtgctgtgtttccctatgaggtgaaaa aagatggtgcagcaaaacagc		
C13	BRCA1	U50709	tttctgggtattgcaggaggaaaatgggtagttagctatttctgggtaacc cagtctattaaagaaagaaagatactagatgagcatgattttgaagtca gaggagatgttgtgaatggaagaaatcaccagggtccgaagcgagc aagagaatcccaggacagagaatcccaagacagaaagatcttcag ggcctagaaatctgttgctatggaccctttaccaacatgcccacagatc		







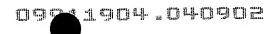


	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY			
ID#	Gene Name	Accession Number	Target Sequence	
C24	Ubiquitin	AB032025	gcagatttttgtaaagaccctgacgggcaaaactatcacccttgaggtc gagcccagtgacaccattgaaaatgtcaaagccaaaatccaagaca aggagggcatcccgcctgaccagcagcgtctgatttttgcgggcaaac agctagaagatggccgaactctgtcagactacaatatccagaaagag ccaccttgcacttggtgcttcgcctgcgaggtggcatcattgagccttcac tccgccagctggcccagaaatacaactgcgacaagatgatctgccgc aagtgttatgctcgcctgcacccccgtgctgtcaactgccgcaagaaga agt	
C25	Matrix metalloproteinase- 2	AF095638	ageggteagtgtgaaggaggtggactetgggaatgacatetacggea accecateaageggatteagtatgagateaageagataaagatgttea aaggaceagacaaggacatagagtttatetacaeggeteetteeteege egtatgeggggteteeetggacateggaggaaagaaggagtateteat gegggaaaggeegaggggaaeggeaagatgeacateaceetttgtg actteategtgeeetgggaca (SEQ ID NO: 139)	
C26	Interleukin-6	U12234	cctggtccagatgctaaagagcaaggtaaagaatcaggatgaagtgaagtgaccactcctgacccaaccacagacgccagcctgcaggctatcttgcagtcgcaggatgagtgcgtgaagcacacaacaattcacctcatcctgcgggtctggaggatttcctgcagttcagtctgagggctgttcggataatgtaggctgggcatctaagattgctgtagttcatggggcattcctttctccagtcagaaacctgtgcagtgggcacaaaacttatgttgttctctgtgaggaactaaaagtatgaggcgttaggacactattttaattatttttaatttattgatatttaaatatgtgatatggagttaatttatataagtaatagatatttatatttttt	
C27	Vascular cell adhesion molecule 1 (VCAM-1)	U32086	tggaatttgaacccaaacaaaggcagagtacacagacactttatgtta tgttgcccccagggatacaaccgtcgtggtcagccctcctccatcgtg aggaaggtagtcctgtgaacatgacctgctctagcgatggccttccag- tccgaacatcctgtggagcaggcggctaagtaatgggcgctgcagt tctttctgaggatccaattctcaccttaacttctgcaaaaatggaagattc ggtatttatgtgtgtgaagggattaaccaggctggaataagcagaaaa aagtagaattaattatccaagttgctccgaaagacatacagcttatagc ttccttctgagagtgtcaaggaaggagacactgtcattatctcctgtaca gtggaaatgttccaaaaacttggataatcctgaagaaaaaagcagag acgggagacacagtgctaaagtccagagatggtgcatataccatcca caaggtccagttagaggatgcggg	
			(SEQ ID NO: 141)	

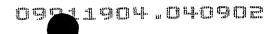


	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C28	Phenol sulfotransferase	D29807	gctccccagaccttgttggatcagaaggtcaaggtggtctacgtcgcc cgcaacgcaa		
C29	GRP94	U01153	aatcccagacatccctgatcaaagacatgctgcgacgagttaagga agatgaagatgacaaaacggtatcggatcttgctgtggttttgtttg		
C30	E-selectin	L23087	ttacacggttgctgtcactggatgaaataattgccaaggagtttagggga aacaacttggtcaaagtattctatcaccaacatgcaaaaaaatattttaa atgcccacaggcgagtacatggggaaatcctgcttaatactttgtgcaa ggattgctaaacacagtcctaatcccttttacccctgtgggattcagtgcat tttaaagtgttcttagagattttaaagtgttcttttatttgcattggctaaagtac aattttccctaattcttaattcagtgtaagtgtttagagactttaaaatatatg catgttagagctatgatagggtaaaagttacttatcagggatctttgtttatg aagggactctaatgttatatctgtagtaaattcattttaaaaggggcaaat gctgtccccagtattacgtgaatcagtgtaaagttgtgaatgtttttactata gttgcttttaaaaacatgaatagtggggcacctgggtg		
C31	gastric lipase	Y13899	tgcactatcatcagagcatgcctccctactacaacctgacagaca		

	TABLE 2		ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
			tggttttctatcatgtttgagacacggtgattgttcccatggttttgatttcaga aatgtgttagcatcaacaatctttccattggtaatttttgaatttaaaatgatt ttaaatttggggcatctgggtggctcagtcggctaagtcgtctgccttcgg cttaagtcatgatctcggggtcctaggatgga (SEQ ID NO: 145)
C32	HSP27	U19368	ggaccetttccgcgactggtacccggccacagccgcctcttcgacca ggcettcgggctgcccggctgccggaggagtgggcgcagtggtcg ccacagcggctggccgggctacgtgcgccgatccccccgcggtcq agggccccgccgcggcgcgcgcgcgcgccgcctacagcc gcgcgctcagccggcgcgcgcgcgcgcgcgcgcgcgcgcg
C33	IL-10	U33843	cgggtccctgctggaggactttaagagttacctgggttgccaagccttgcggagatgatccagttttacttggaggaggtgatgccccgggctgagaccacgacccagacatcaagaaccacgtgaactccctgggagagaga
C34	caveolin-1	U47060	tccgaggggcacctctacaccgttcccatccgggagcagggcacc ctacaagcccaacaacaaggccatggcggaggagatgagcgag gcaggtgtacgacgcgcacaccaaggaaatcgacctggtcaaccg gaccccaagcatctcaacgacgacgtggtcaagattgatt
			(SEQ ID NO: 148)

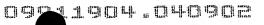
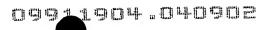


	TABLE 2	TARGET SEQU	ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
C35	H-ras, p21	U62092	accatccagctcatccagaaccacttcgtggatgagtacgaccccacc atcgaggactcctatcggaagcaagtggtcattgacggggagacgtgcctgctggacatcctggacacagcgggccaggaggagtacagcgccat gcgggaccagtacatgcgcacggggagggggggggg
C36	rab2	M35521	agacaagaggtttcagccagtgcatgacctgactatcggtgtagagtttggtgtctcgaatgataactattgatgggaaacagataaaacttcagatatgggatacggcagggcaagagtcctttcgttccatcacaaggtcatattacagaggtgcagcaggggctttactagtgtatgatattacaaggagagatacattcaaccacttgacaacctggttagaagatgcccgccagcattcaattccaacatggtcattatgcttattggaaataaaagtgatttagaatcaagaagagagag
C37	rab5	M35520	aagcctagtgcttcgttttgtgaagggccaatttcatgaatttcaagagag taccataggggctgcttttctaacccaaactgtgtgtcttgatgatacaac agtaaagtttgaaatatgggatacagctggtcaagaacgataccatag cttagcaccaatgtactacagaggagcacaagcagccatagttgtatat gatatcacaaatgaggagtcctttgccagagccaaaaactgggttaaa gaacttcagaggcaagccagtcctaacattgtaatagctttatcaggaa acaaggctgatcttgcaaataaaagagctgtcgatttccaggaagcac agtcctatgcagatgacaacagtttattattcatggagacatcagctaaa acatcgatgaacgtaaatgaaatattcatggcaatagctaaaaagttgccaaagaacgaac
C38	rab7	M35522	ccccaacacattcaaaaccctcgatagctggagagatgagtttctcatc caggccagtcccgggatcctgaaaacttccetttcgttgtgtgggaaa caagattgacctcgaaaacagacaagtggccacaaagcgggcaca ggcctggtgctacagcaaaaacaacattccctacttcgagaccagtgc caaggaggccatcaatgtggagcaggcgttccagacgattgcaagga atgcacttaaacaggaaacagaggtggagctgtacaatgaattccctg aacccatcaaactggacaagaacgaccgggccaagacctcagcgg aaagctgcagttgctgaaggggcagtgagagcagagc

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY					
ID#	Gene Name	Accession Number	Target Sequence			
			tettecaaacaaaacataaagteatetetegaateeagetgeeaaaaga ceetaccaaacaetteaceetgacacacaca (SEQ ID NO: 152)			
C39	APO CII	M17177	ctggttctgttgcttgtcctcctggtattgggatttgaggtccagggggccc atgagtcccagcaagatgaaaccaccagctccgcctgctcacccag atgcaggaatcactctacagttactggggcacagccagatcggctgcc gaggacctgtacaagaaggcatacccaactaccatggatgagaaaa cagggacatatacagcaaaagcacagcagctgtgagcacttacgca gggattttcactgacc (SEQ ID NO: 153)			
C40	endothelin-2	X57038	ctgtccgcctctgtcccctgttgcgcacgcaggcaagggccaggtggcgctgcccggagcatccagcacctcagcccgggcccgaggctccactgcggcctcggcgttgctcctgcagctcctggctcgacaaggagtgcgtctacttctgccacctggacatcatctgggtgaacactcccgggtgacctccgggggacccaggcggggctgctagaggggggagggggggg			
C41	FGFR2	AF211257	tgattgttcttctgccaccaaaatgccagtagtaaacaaac			
C42	leptin	AB020986	gccttaccctcagggaccttgcattccagatggtaaaaatgccacacaca			



	TABLE 2 TA	RGET SEQU	ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
			cggaggctgttttgttcatgc (SEQ ID NO: 156)
C43	prostaglandin D synthase	AB026988	aggtgtccctgcagcccaacttccaacaggataagttcctggggcgctggttcacctcgggcctcgctccaactcgagctggttccgggagaagaagaagaacgtgctgtccatgtgtatgtcagtggtggccccgaccgcagacggaggcctcaacctcacctccaccttcctcaggaaagaccagtgtgagactcgaaccctgctcctacggcggggaaccccggggtgctacagctaccacgagtcccactggggcagtacccacgacgtgtgggtgg
C44	paraoxonase2 (PON2)	L48515	ggatctaaaaaggaaaacccgagggcactggaattaagacgcgtggattaaaagacaggatcaatttggcttcgttcaatccacatggtatcagcaccttcatagacagcgacgacacagtttatctctttgttgtaaaccatccagaattcaagaatacagtggaaattttaaatttgaagaagaagaaaattctcttctgcatctaaaaacaatcaaacatgaacttcttccaagtggaatgatatcataggtgtggaccagcacatttctatgccaccaatgaccactatttctctgatccttcttaaagtatttggaaacatacttgaacttacactgggcaaatgttgttactacagtccagatgaagttaaagtggtagcagaagggtttgatgcagcaaatgggatcaatatttcacc
C45	beta-glucuronidase	AF019759	cgccgtatgtggacgtcatctgtgtcaacagttactactcttggtatcacg actatgggcacatggaggtgattcagctgcagctggccaccgagtttg gaactggtataggacctaccagaaaccaataatccagagcgagtac gggcagagacaattgcaggcttccaccaggatccacctctgatgttca tgaggagtaccagaaaggtctgctcgagcagtatcacttggtgctgga cagaaacgcaaagaatatgtggttggagagctcatctggaattttgctg attttatgactgaccagtcaccacagagagcagtagggaacagaaa ggcatcttcactcgccagagacaacccaaagcggcggccttcctt
			(SEQ ID NO: 159)



ID#	Gene Name caveolin-2	Accession Number	ctccaggtgggcttcgaggacgtgatcgcggacgccgtgtctacgcact cctttgacaaagtgtggatttgcagccatgccctgtttgaggtcagcaagt acgtgatctacaagttcctgacgttgctcctggcgatgcccatggccttcg cggcaggggttctcttcgccaccctcagctgcctgcacatctggattata atgcctttcgtgaagacctgcctcatggtcctgccttcggtgaagacgat tggaagagtgtaacagatgctgtcattgccccgttgtgttcaagtgtagg acgcagcttctcttct
C46	caveolin-2	AF039223	cctttgacaaagtgtggatttgcagccatgccctgtttgaggtcagcaagt acgtgatctacaagttcctgacgttgctcctggcgatgcccatggccttcg cggcaggggttctcttcgccaccctcagctgcctgcacatctggattata atgcctttcgtgaagacctgcctcatggtcctgccttcggtgcagaccata tggaagagtgtaacagatgctgtcattgccccgttgtgttcaagtgtagg acgcagcttctcttct
			(SEQ ID NO: 160)
C47	natrix metalloproteinase- 14	AF032025	ttcttcaaaggagacaagcactgggtgtttgatgaagcttctctggaacct ggctaccccaagcacatcaaggagctgggccgaggactgcctactga caaaatcgatgctgctctcttctggatgcccaatggaaagacctacttctt ccggggaaacaagtattaccgtttcaacgaggaactcagggcagtgg acagcgagtaccccaaaaacatcaaggtctgggaaggaatccctga gtctcccagagggtcattcatgggcagtgatgaagtcttcacttcta caaggggaacaaatactggaaattcaacaaccagaagctgaaggta gagccaggcta (SEQ ID NO: 161)
C48 r	matrix metalloproteinase- 9	AB006421	gattctccaagggcaagggacgccggtgcagggccccttcttatcaccgagcacgtggcctgcgctgccccgcaagctggactccgcctttgaggacgggctcaccaagaagactttcttcttctctgggcgccaagtgtgggtgtacacaggcacgtcggtggtaggcccgaggcgtctggacaagctgggcctgggcccggaggttacccaagtcaccggcgcctcccgcaagcgggggtaaggtgctgctgttcagcaggcag
C49	IL-8	U10308	gtggcccacattgtgaaaactcagaaatcattgtaaagcttttcaatggaaatgaggtgtgcctggaccccaaggaaaaatgggtacaaaaggttgtgcagaatatttctaaagaaggctgagaaacaagatccgtgaaacaacaacaacacattctctgtggtttccaagaattcctcaggaaagatgccaatgaacttcaaaaaaaa

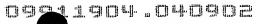


	TABLE 2 TA	ARGET SEQU	ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
C50	keratinocyte growth factor	U80800	caatgacatgactccagagcaaatggctacaaatgtgaactgttccag ccctgagcgacatacaagaagttatgattacatggaaggaggggatat aagagtgagaagactcttctgtcgaacacagtggtatctgaggattgat aaacgaggcaaagtcaaagggacccaagagatgaagaacagttac aatatcatggaaatcaggacagtggcagttggaatagtggcaatcaaa ggggtggaaagtgaatattatcttgcaatgaataaggaagg
C51	decorin	U83141	gattgaaaatggagccttccagggaatgaagaagctctcctatatccgcattgctgataccaatataactaccatcctcaaggtcttcctccttcccttacttgaattacatcttgaaggcaacaaaatcaccaaggttgatgcatctagcctgaaaggactgaataatttggctaagttgggactgagttttaacagcatctccgctgttgacaatggcactctagccaacactcctcatctgagggagcttcacttggacaacaataagctcatcagagtacccggtgggctggcggagcataagtacatccaggttgtctaccttcataacaacaataatctgcagtcggatctaatgacttctgcccacctggatacaacaacaaaaggcttcttattcaggtgtgagccttttcagcaacccagtgcagtactgggagatccagccatccaccttccggtgtgtctacgtgcgctctgccatccagcttggaaattat
C52	glucose-6-phosphatase	U91844	ctggggatctcagctgcaggattttctacctgtcccatccttacaagaaaa gggaaaggagcagtggcatttgataggaaagaagaatggattaagg aaagacttcttcgtatcctgcatatcatgcaaattcatgttacacaaaatct aaatcgctttgattatatttgaatttttaggtaaggaactctcaatagtgggggaccaacttaaagcataactaataggtagttaatggggtaattctgcttcttctatgtttctactatgtattcagtgacctagatttgtgctgggtcagagcatt cagatatagtcagcttctatcacactacatcttcctccttgtcagcctag ctcagctttcctagaactttccactgctctacatcgtgctgacacagagattgcctaaaggcagctctagggtagtgcttttgtatggtttagtcaagctctgaaatcttgggcaaaaaggtgaggagagggcaaggagagaga
C53	TGFB1	L34956	gaccettectgetecteatggeeacceactggagagggeecageactggeacaggactecaggagaggag



	TABLE 2 T	ARGET SEQU	ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
			gtacagcaaggtcctggccctgtacaaccagcacaacccgggcgcgtcggcgcgtgctgcgtgcg
C54	ZAP36/annexin IV	D38223	gacacgtccttcatgttccagagggtgctggtgtcgctgtcggccggtgg cagggatgaaggaaattttctggacgatgctctcatgagacaggatgct caggacctgtatgaggctggagagaagaaatggggaacagatgagg tgaaatttctgactgttctctgctcccggaaccgaaatcacctgttgcatgt gtttgatgaatacaaaaggatatcacagaaggatattgagcagggtatt aaatctgaaacatccggtagctttgaagatgctctgctggccatagtaaa gtgcatgaggaacaaatctgcatactttgctgaaaggctttataaatctat gaagggcttgggaacagatgataacaccctcatcagggttatggtgtct cgagcggagatcgatatgatggacatccgggagagcttcaagaggctt tacggaaagtctctgtactccttcatcaagggtgacacatctgg
C55	N-ras	U62093	gttggagcaggtggtgttgggaaaagcgcactgacaatccagctaatccagaaccactttgtagatgaatatgatcccaccatagaggattcttaccgaaaacaggtggttatagacggtgaaacctgtctgt
C56	K-ras	U62094	gtagttggagctggtggcgtaggcaagagtgccttgacgatacagcta attcagaatcactttgtggatgaatatgatcctacaatagaggattcctac aggaaacaagtagtaattgatggagaaacctgtctcttggatattctcga cacagcaggtcaagaggagtacagtgcaatgagggaccagtacatg aggactggggagggctttctttgtgtatttgcc (SEQ ID NO: 170)
C57	p38 MAPK	AF003597	ctggtgacccatcttatgggagcagatctgaacaacattgtgaaatgtctgaagcttacggatgaccatgttcagttccttatctaccaaattctccgaggtctctcaagtatatacattcagctgacataattcacagggacctaaaacctagcattagctgtgaatgaa

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY						
ID#	Gene Name	Accession Number	Target Sequence				
			agtctgcaagaaactacattcagtctttgacccagatgccgaagatgaactttgcaaa (SEQ ID NO: 171)				

Please substitue TABLE 3 50-mer target sequence for canine arrays with TABLE 3 50-mer target sequence for canine arrays, amended as follows:

TABLE 3 50-mer target sequence for canine arrays

	TABLES 50-mer target sequence for canno arrays						
ID#	Gene Name	GenBank Accession Number	50-mer sequence				
C58	Cytochrome P450 2D	D17397	ccggctcctcagcaggggcccgaggtacaat aaaccagtttggtggctcc (SEQ ID NO:172)				
C59	Cytochrome P450 2B	M92447	aactcaaataaacatcaaaagcctgacatcc cctggtcaggtggtgagcc (SEQ ID NO:173)				
C60	Cytochrome P450 2C41	AF016248	ccagtgaacatccaacctccattaaaggaaa gtctccagaatttctttgc (SEQ ID NO:174)				
C61	Cytochrome P450 2C21	AF049909	tatctctgcctctctctgtgtgtgtgtctctcatgaa taaataaaatctt (SEQ ID NO: 175)				
C62	Cytochrome P450 3A	X54915	gtgacacagaatgagaaactcttaactctggg aaatgtacaagggatagt (SEQ ID NO: 176)				

Please substitute **Table 6** with **Table 6** amended as follows:

				Table 6
ID#	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C64	Gadd45		CCATG TAGCG ACTTT CCCG (SEQ ID NO: 178)	CGCGTCTAGAAACTGAACCAAATTGCACTGAA GTTTTGAAATACCTTTGTAGTTACTCAAGCAGT TACTCCCCACACTGATGCAAGGATTACAGAAA CTGATGTCAAGGGGCTGAGTGAGTTCAACTAC AGATTCCGGGGGCCCGGAGCTAGATGACTTTG CAGATGGAAAGAGGTGAAAATGAAGAAGGAA GCTATGTTGAAACAAATACAAGTCAAAAGGAA CAAAAATTACAAAGAACCATGCAGGAAGAAG CTTGGCC (SEQ ID NO: 179)
C65	Super- oxide dismu-tase Mn	AACAAC CTGAAC GTCACC GA (SEQ ID NO: 180)	TCTCC CAGTT GATTA CATTC CAAA (SEQ ID NO: 181)	GCGCGAATTCAACAACCTGAACGTCACCGAGG AGAAGTATCTGGAGGCGCTGGAGAAGGGTGAC ATTACAGCTCAGATAGCTCTTCAGCCTGGGCTC AAGTTCAATGGAGGAGAGGTCATATCAATCATTC CATCTTCTGGACAAACCTGAGCCCTAAGGGTG GTGGAGAACCAAAAGGGGAATTGCTGGAAGC CATCAAACGTGATTTTGGTTCCTTCGACAAATT TAAGGAGAAGTTGACCACTATATCCGTCGGTG TCCAAGGCTCAGGTTGGGGTTGGCTTTCA ATAAGGAGCAGGGACGCTTGCAGATTGCTGCT TGTTTTAACCAGGATCCCTGCAAGGAACAAC AGGTCTTATTCCACTACTGGGGATCGATGTGTG GGAGCATGCTTATTACCTTCAGTATAAAAATGT CAGACCGGATTATCTAAAAGCTATTTGGAATG TAATCAACTGGGAGAAAGCTTGGCC (SEQ ID NO:182)
C66	UV Excision repair protein RAD23 (XP-C)	GAAAGT CAGGCT GTGGTTG A (SEQ ID NO: 183)	TGGCA GCCAA ATTCT CATTC (SEQ ID NO: 184)	

		T		
C67	Proliferati ng cell nuclear antigen gene	GATAAC GCGGAT ACCTTGG C (SEQ ID NO: 186)	AGTGT CCCAT ATCCG CAATT TT (SEQ ID NO: 187)	GCGCGGATCCGATAACGCGGATACCTTGGCGC TGGTATTTGAAGCACCAAGAACAGGAGTACAG CTGTGTAGTAAAAGATGCCTTCTGGTGAATTTGC ACGTATATGCCGAGATCTCAGCCATATTGGAG ATGCTGTTGTAATTTCCTGTGCAAAAGACGGA GTGAAATTTCTGCGAGTGGAGAACTTGGAAA TGGAAACATTAAATTGTCACGGACAAGTAATG TCGATAAAGAGGAGGAGCTGTTACCATAGAG ATGAATGAACCAGTTCAACTATTTGCACTG AGGTACCTGAACTTCTTTACAAAAGCCACTCC ACTCTCTTCAACGGTGACACTCAGTATGTCTGC AGATGTACCCCTTGTTGTAGAGTATAAAATTGC GGATATGGGACACTAAGCTTGGCC (SEQ ID NO: 188)
C68	Glucose- regulated protein 94	CTGTGGT GTCTCTG CGCCT (SEQ ID NO: 189)	TTTCA GCTGT AGATT CCTTT GCTG (SEQ ID NO: 190)	CGCGGGATCCCTGTGGTGTCTCAGCGCCTGAC AGAGTCTCCGTGTGCTCTGGTGGCCAGCCAGT ATGGATGGTCTGGCAACATGGAGAGAATCATG AAAGCTCAAGCATACCAGACGGCCAAAGACAT CTCTACAAATTACTATGCCAGCCAAAAGAAAA CATTTGAAATTAATCCCAGACATCCCCTGATCA AAGACATGCTTCGACGAGTTAAGGAAGATGAG GATGACAAAACGGTATCGGATCTTGCTGTGGT TTTGTTTGAGACAGCAACGCTGAGATCAGGCT ATCTGCTACCAGACACTAAAGCATATGGAGAT CGAATAGAAAGAATGCTTCGCCTCAGTTTAAA CATTGACCCTGATGCAAAGGTGGAAGAAGAAC CAGAAGAAGAACCCGAAGAGACAACCGAGGA CACCACAGAAGACACAGAGCAGACGATGAA GAAGAAATGGATGCAGGAACAACGACGAAG AACAAGAAACAGCAAAGGAACTTACAGCTGA AAAAGCTTGGCC (SEQ ID NO: 191)
C69	Gluta- thione S- trans- ferase alpha subunit	CAGAGA AGCCCA AGCTCC AC (SEQ ID NO: 192)	ACCAG ATGAA TGTCA GCCCG (SEQ ID NO: 193)	CGCGGGATCCCAGAGAAGCCCAAGCTCCACTA CTTCAATGGACGAGGCAGAATGGAGTCCATCC GGTGGCTCCTGGCTTCAGCTGGAGTAGAGTTT GAAGAGAAATTTATAAATGCTCCAGAAGACTT GGATAAATTAAAAAAATGATGGAAGTCTGATGT TCCAGCAAGTGCCAATGGTGGAAATTGATGGA ATGAAGCTGGTACAGACCAGAGCCATTCTCAA CTACATTGCCACCAAATACAACCTCTATGGGA AAGACATAAAGGAGAGAGACTCTGATAGATATG TACACAGAAGGTATAGTAGATTTGAATGAAAT GATCATGGTTTTGCCTCTATGCCCACCTGATCA AAAAGATGCCAAGATTACTCTGATCAGAGAGA GAACAACAGATCGTTATCTCCCCGTGTTTGAA AAAGTGTTAAAGAGCCATGGACAAGACTACCT TGTTGGCAACAAGCTGAGCCGGCTGACATTC ATCTGGTCTCGAGGGGCC (SEQ ID NO: 194)
C70	BR-	GTCCGTG	CACCG	GTCCGTGGCAGAGTCCCTCAGCTCTATAGACTC

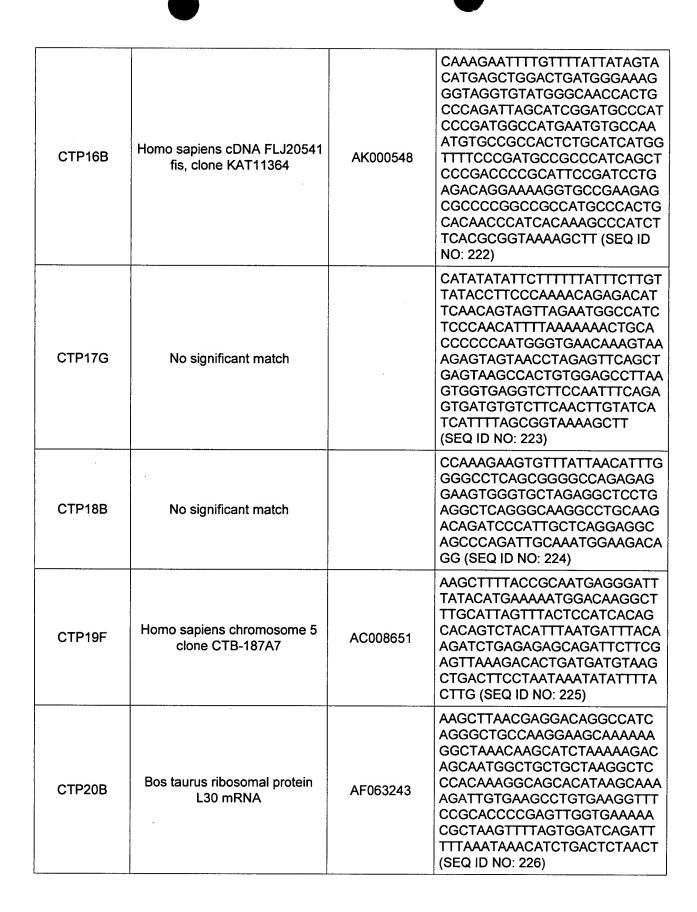
				TARREST CONTRACTACCACT
	cadherin	GCAGAG [rgatg '	TCTCACCACAGAGGCTGACCAGGACTACGACT
		TCCCTCA (CCACA	ATCTGACAGACTGGGAACCCCGCTTTAAAGTC
ļ		GCTCTAT	raget	TTGGCAGACATGTTTGGGGAAGAAGAGAGTTA
Ì			ATCTT	TAACCCTGATAAAGTCACTTAGGGCAGAAGCC
		(SEQ ID	cg	AAGGATAAAACACAACCAAAAGGAGAAATTT
		NO: 192)	- 1	AAAAGAAACACAAATAGAAATCTCTCTCTCTC
			(SEQ	ACACACACACATGCATACATGCACGTGCAC
			ID NO:	ACACAGACACAGACACACACACCAGGCTTT
		1 '		GTAGGACACAATCATTTGATGATCTGGTTTCTA
İ	ľ		196)	GCAAGTTGCTGTAGTTATCATATTGTCAAGTTT
		l l		TGTTTTACTCTGCCAACACAAGATAAATCCTAT
ŀ				TIGHT I ACTUACITY COTTOC TTTTCTTTCTTTCTTTTTTTTTTTTTTTTT
			1	TACATGTACTTGCTTGGTTTTTGTTCTTTT
				GGATACACACTGAGACAAGCTCAGGCCTATTA
				AATACAATTTACTGACATGACAACATAGAACG
İ		1		AAGATAGCTATTGGCATCACGGTG (SEQ ID NO:
			Ì	197)
				GGAGCCTGATGCCATCAAGCCTGTAGGAATCC
				GACGATTGGATGAGAGACCCATCCACGCCGAA
j				CCCCAGTACCCGGNCCGATCTGCAGCCCCGCA
				CCCTGGGGACATCGGGGACTTCATTAATGAGG
			GGTTT	GCCTTAAAGCTGCTGACAATGATCCCACAGCT
		GGAGCC	GCAGC	CCACCATATGACTCCTCTTAGTCTTTGACTAC
		TGATGCC	CTATG	GAAGGCAGTGGCTCTACCGCTGGGTCTTTGAG
1		ATCAAG	CCAAA	GAAGGCAGIGGCICIACCGCIGGCICIACCGAGCA
~~4	N-		GCC	CTCCCTTAATTCTTCAAGTAGTGGTGGCGAGCA
C71	cadherin	CCTG	ucc	GGACTATGACTACCTGAACGACTGGGGGCCAC
		1070 77	(0.00	GGTTCAAGAAACTTGCTGACATGTATGGTGGA
	Į	(SEQ ID	(SEQ	GGTGATGACTGAACTTCAGGGTGAACTTGGTC
		NO: 198	ID NO:	TTTTGGACAAGTACAAACAATTTCAACTGATAT
			199)	TCCCAAAAAGCATTCAGAAGCTAGGCTTTAAC
				TTTGTAGTCTACTAGCACAGTGCTTGCTGGAGC
				CTTTGGCATAGGCTGCAAACC (SEQ ID NO: 200)
				GGGTGGCCCATCAATTCTTCAGGTGCTGGTCTT
				TCTTTCGGTTGTTTTCGCATGCACTGAGTGATG
	ł			AAATGTACAAATGGCTCGGAGAACTCTCCAAC
	ļ	1	GGGTG	CGGAAGGACGGCGAATCCTCATCAACAATGC
		TCATGG	GCCCA	ACTGCAGAAGCTGGAGAGGCTCCATGAAAGAG
		ATGGGG	TCAAT	ATTCCTAAACTCCGGACATCAGAATGGATTCC
		GATCTTT	TCTTC	ATACTGCTCCCCTGAAATTCTTTCAGGCGCCA
070	N 4 - 1 - 5	GGATG	AGGT	ATAAGCATTTGTTCCAACATACGTCTTGGCTA
C72	Mek5	GUAIU	AUUI	AGAATTCACCAGCTGAGTGCTAACTCCAAAAT
		(OFC ID	CEC	CGCACAGCTTGACCTGTCCTCTTGTGTTTACTA
		(SEQ ID	(SEQ	GCGTATTGGAGGGCTTCACATCTCTATGTAAA
		NO: 201)	ID NO:	ATCTTTAAACTCCACAAGTAGGTAAGGCCTTT
			202)	ACAACTGCTATTGCAATTCTTCCAAGGACATG
1				ACAACIGCIATIGCAATICTICCAAGGATCCC
				TCTGGAATTTTCTATATACATCCAAAGATCCC
				CCATCCATGA (SEQ ID NO: 203)
	1	GCAGCA	AAGCC	TAAGCCGGAAGCGATCTCATCGAAGGTCCGGCG
		GCCTGTG		TTTGGTCTCAGGAACTTTGAAGTAGGTGAAGA
	Glucose	TATGCCA		TGAAGAACAGAACCAGGAGCACGGTGAAGAT
C73	transpor-	CC	CTCAT	GATGAAGACGTACGGACCACACAGTTGCTCTA
	ter		CGAA	CATACTGGAAGCACATGCCCACAATGAAATT
1	1	(SEQ ID	COAA	GAGGTCCAGTTGGAGAAGCCAGCAACAGCAA
ļ	li .			

C74	SHB (Src homology 2 protein)	CGCCGA TGAGTA CGACCA GCCTT (SEQ ID NO: 207)	GCTCA GCCCC TTTGA TGGGT AGC (SEQ ID NO: 208)	GGCAGCTGGGCGAGGACCCTGGCTGAGGAGTT CAGCCACAATGAACCATGGGATGGG
C75	Ear-3 (v-erbA related) or Apolipopr otein AI regulatory protein (ARP-1)	TGCAGA TCACCG ACCAGG TGTCC (SEQ ID NO: 210)	CATAT CGCGG ATGAG AGTTT CGATG G (SEQ ID NO: 211)	TGCAGATCACCCGACCAGGTGTCCCTGCTTCGC CTCACCTGGAGCGAGCTGTTTGTGCTGAATGC AGCACAGTGCTCCATGCCCCTCCACGTCGCCC CGCTCCTGGCCGCCGCAGGCCTACACGCCTCA CCCATGTCCGCCGACCGAGTGGTCGCCTTTATG GACCACATACGGATCTTCCAAGAGCAAGTGGA GAAGCTCAAAGCGCTGCACGTCGACTCCGCCG AGTACAGCTGTCTCAAGGCCATAGTCCTGTTCA CCTCAGATGCCTGTGGTCTCTCTGATGTAGCCC ATGTGGAAAGCTTGCAGGAAAAGTCCCAGTGT GCTTTGGAAGAATACGTTAGGAGCCAGTACCC CAACCAACCAACACGATTCGGAAAAGCTTTTAC TTCGCCTCCCTTCCCT

Please substitute **Table 7** with **Table 7** amended as follows:

H-11-	Table 7				
Band #	Genbank Gene Name	Accession	Sequence		
CTP1D	No significant match	,	GACTGAGACCATTTATTCNAGACA CGCAGCTGACCAAGGAGTGAGGG AGGGACCAGGTGTGCAAGCTAAT AAATAGAGGAGGGGGGAGACTTCC TGGAGCTGTAGCCATTCAGTCTTC ATTCTTCTCAGGCATGAAGGCATC TCTTTTCTGACCAAAGCTT (SEQ ID NO: 213)		
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATATTA GTTTGCATTTTAGTGACAGGTGTA AGAGAAAGGCCCCTTCTTCCCTTA CTGGGACAAATCTAGAAATCTTAC ACAGATGTGCAAATAAAGCTCGCG TGGTGTTC (SEQ ID NO: 214)		
СТР3В	Homo Sapien N-myc downstream regulated (NDRG1)	BC003175	GCAAAGTTACAAATTTATTGGTCT GGAAATAAATACAAATATCTGATTA AGAAACTTCTCTGGAAAGACTTGT ACACAACAGTTTTCCTGTCTCGAT TCAGCCACTCCTGCCCTGACCAAA GCTT (SEQ ID NO: 215)		
СТР4В	No significant match		GAGCAGCAGTGAGCAAAACCCAC GAAGTTGTTTTAAGGTTACAGCTA TGAATAAACATTGTCCAAACAATG AAGATTTAGGGCTGAAGAACGAG CGTATGTCTACAGTCGAAGCTT (SEQ ID NO: 216)		
СТР7В	No significant match		CAGGTGCAAGAGGTTTGTTTGGG AGGTAATCCTAGAAACCACAGAAG GGGGTGGGGATAGGAGGGATGG CAGGAAAACCAGTAAGAACTGTGT TATTGAGAAGGTTATCACTGTGGA CAACTGGCACAGAATACACTTCAG AGCTGTCGCCCTGAGGGACAATG ACGCCAAGGTCTTTTTCTCTAAGT CCTGTTTCTTATAGGCCGAGGGTG GCTCCTGGGAGCAGTAACTGCCA ACAGTCGAAGCTT (SEQ ID NO: 217)		

СТР8А	No significant match		AAGCTTGATTGCCCATACCTGAGC CATTGATATATTTGAAAATTATGGC ACAAATGGAAGAGAACCACATTTG AAAAGCTTCCAGCCTTTCAACAGA AGATAACTCTTCTTGTTTTGCAGAT TGAGCAGATAATTTCTTTTGAAGG TGATAGTTTCCTAAATTGGATAAAA CCGTGGCTGCCATTATATTCACAG AAAATAAAAT
СТР8С	Human DNA sequence from clone RP4-734P14 on chromosome 20	HSJ734P14	CAATATTCTTAAGAGTTTATTATAA ACTAGTTTCACAGGCTACAAGGAA GTATTTAGGACTATGTACAGCCTG ACGGGAAACAGGCAGGGAGCTGA GGAGGGCCAAGATGAGTCTAGGG CCTTGGTGGGCGCATTCCCGGGG GAGGGGCCCTGAAAGGGAAACC AGACAATCCTGTGAGACTCCAAGA ACAACGGCATAACAAACAAACACG TCTGTGGCAATCAAGCTT (SEQ ID NO: 219)
CTP10Y	Canis familiaris mitochondrion	CFU96639	AGTAGATGGGACCGAGAATAATTT TAGGGTTAAGGGATAGGAGGAGT AGGGGCAGTAGGTGCAAGGTCAT TAGGGCATTTTCTCGTGTGAATGA TGGTTTGATATTTTTGATATGGTG GGAATATTTACCACGTTGTGTGGT GATTAATATATAAAGTGAGTATAG GGCGGTAAAAAGCTT (SEQ ID NO: 220)
CTP11A	cyclin-dependent kinase inhibitor 1A (p21, Cip1),	BC001935	ACTAAGAAATATTTATTGAGCACCT GCTGTGTACCCAGCACTGCGGGA GGGGCTGTGAGAGACCCAGGGCA GTACAGGACTTGTTCTTGCCCTTC AGAGGCTTATAGTCTAGGTGGAAA CAGGAGAACCAGGACACATGAGG AGCCAGGAGAAAACAGTACAGGC CAGGATGTTACAGGAGCCTACAGT GCTTCAGTACCTCTAGGGGCTCAA TGTTCAGGGCCAGAAGAGACAATA ACTCACAACTAGCCCATGTAGCAT GCCCTATCCACAGCGTCTACCTCT GCTATCTTAAAACATCTGACTCCT CGTTAAGCTT (SEQ ID NO: 221)



CTP21A	Rattus norvegicus ribosomal protein L31 (Rpl31),	NM_022506	CATGGAGCNGTTTTATACCTTTATT TGACAATCAGCGATTAGTTCTCAT CCACATTAACAGTCTGTAGATTTTT GAAAGTGGTGACAGGTACGTAGG TAACCAGCGTGTAGAGCTTGTTTG GTGAATCTTCATCCTCGTTAAGCT T (SEQ ID NO: 227)
CTP22C	Canis familiaris mRNA for ubiquitin-ribosomal protein L40, fusion	AJ388512	CAATGGTGTCACTGGGCTCGACC TCAAGGGTGATAGTTTTGCCCGTC AGGGTCTTCACAAAGATCTGCATC TCTGCGTCTGCTGGAGCGAACTC GCAAGGCCGCCGCCACCAAACCG CTCGCCCACCTCGTTAAGCTT (SEQ ID NO: 228)
CTP25D	No significant match		AAGCTTGCACCATATATATAACTCT TGGGCAGAGGGTCTGGCATACAT AAGTAGATACTCAGAAATATCTGT TGGATTGTGTTGATTTAATTATTT TGTGTTGCTTCTTTTAAAGATGAG CACTTTCTATTAGATATTTTTTTGATC TCAAAAAAAAAGATATTTTTTTTGATC ATACAGATTTAAGCAGGATTTTTAT TAATTCGTTTCTCTTCCTGGTTGG (SEQ ID NO: 229)
CTP26A	Canis familiaris chymase gene	U89607	CATGAGAGAGACGGAAAGAGAGAGAGAGAGAGAGACACAGGCAG
СТР26В	H.sapiens cycA gene for cyclin A	X68303	AAGCTTCTCAACGTATATGGTGTACAGTTTTTTTTTTTT

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CTP27C	Homo sapiens CTCL tumor antigen se20-10 mRNA	AF177227	AAGCTTCTCAACGTATTCAAGAGA AAACTTCTAAATTGCCAGATATGTT AAAAGACCATTATCCATGTGTGTC TTCACTGGAGCAGTTAACAGAGTT GGGAGGTGAAACTGATGTTTTTGT ATGCCGTCCTAACACAGCCCTATG CCCGATGTACTCAGAGACTGGAA CAGCACAAGAGAAATAAAGCAACA ATCAGTAATGGG (SEQ ID NO: 232)
CTP28D	Homo sapiens upstream binding protein 1 (LBP-1a) (UBP1	NM_014517	AAGCTTTGGTCAGGCAGGAATAG GAATGAGTAATTTGGGCTTTGAAA TCTCTCCCAGAAGACAAACTACTT CGATGGGAAAAAGCTTTGACATTT TGTGTTTTATTTGTAGAGGGGGTT ATTGGATACAGAGGAGCCTGGTCT CATACATTTTCATCTTCAGTCTGAA AAGATCTGTAATTCTGTAGACCCT GAAGCGGGGGAACTTTTCTTCTG CCATCTCCCTTTGCTTTCATATGAA CACCTCTTCTGTACCAATCATTTG GAAAAGAAGTGAGCATATCTCTTG TTTTAAAAGTTTTGCTTGNCTGGTT AGCATTCCTTTTGAGCTCAACATA TATGGAACAATAAATGTCATTTAAT GCTGNGNGCTATTTTGAATTCCTC ATCAGGTTTTAGAAGCTCATTGGACT TTGAAATTATNCCAGCCGCCNTTG ACCATTATCTGGCCCANCAAAGCA GGTTAAATTATGGCNCCNGCAAAT TTGCTTTTTTTTTTTAATAGNNGGAN GNNTACNTTTCAGNTTAATAAATG TTTCCGATGGTTTGC (SEQ ID NO: 233)

CTP30E	Homo sapiens BAC clone CTB- 60N22 from 7q21	AC003083	GGTCAAAGTGTATAGTTTTGACTT ACCCCTCCCAGATCCTGAATGTCC TTTTGGAGTTTTTCAGATACGGTG ACAGAAGGTAAGTCAATGTAAAAT ATTTTTCCCCAGAGTGGCTTATATT TGTATTTTTCTGGTTTGTTATCAGT TTTCATAGATTTCATAGATCTGTTT TTTTCATTTTTGACTTGGATTCCAC CTGTTGTTTAAAAAAAAGTAGAATCA GATCATGATTTATAGAGTAGAAAA ATTTCTCTTTTAAAAAATACTTTTTAT ACAGTCATCATTTCATAGAGGGGG AAAAAATCTTTATAATACCACCAAT TAAACACTCAATAGCATTTTACTGT ATTTCTTCGTAGTATCACTTAGGAT AAAACCAGAATACCATATTTGTTTT AACAGATCCCATACTGTAAAATAA TCATCGTTCACAGCCTACAGTCGA AGCTT (SEQ ID NO: 234)
CTP31A	No significant match		GGGGCAGATAAAAACACTTAATGT AAAATTTACCCTCTCAGAAAAATTT CCAGTATGCTATACGGTATCACTA ACTATAGTCACTATAGTATACAGTA GATCCCTAGGATTTATTCATGATG TACAGTCGAAGCTT (SEQ ID NO: 235)
CTP32D	cDNA FLJ14795 fis, clone NT2RP4001219	AK027701	AAGCTTGATTGCCAGAGTTACGAA AAGCATCAAAGCATCTTTATGGTC AGCTTAAATTTGGTACACTAGATT GTACAATTCATGAGGGACTCTGTA ACATGTATAACATTCAGGCTTATC CAACAATAGTGGTGTTCAACCAGT CCAACGTTCATGAATACGAAGGCC ATCACTCTGCTGAACAGATCTTGG AATTCATAGAGGACCTTATGAATC CTTCAGTGATCTCCCTGACACCCA CCACTTTCAATGAACTGGTTAAAC AGAGAAAACATGACCAAGTCTGGA TGGTTGATTTCTATTCTCCATGGT GTCATCCATGTCAAGTCCTAATGC CAGAATGGAAAAGAATGGCCCGG ACATTAACTGGACTGATCAATGTG GGCAGCGTAGACTGCCAACAGTA TCATTCTTTTTGTGCCCAAGAAAAT GTTCGGAGATCCCTGAGATAAGAA TTTACCCCCC (SEQ ID NO: 236)

CTP34A	Homo sapiens ribosomal protein S29	NM_001032	AAGCTTTGGTCAGGGCTCTCGTTC TTGCCGCGTCTGTTCAAACCGGCA CGGTCTGATCCCGGAAATACGGC CTCAACATGTGCCGGCCAGTGTTT CCGTCAGTACGCCCAAGGATATAG GCTTCATTAAGTTGGATTAAGTGA ACTTCCTTGAATGGGTCATCCAAG ATACCTACCTTAACTGCAGATGTC CAAGATACCTACTTTGATGCCAAC TCATTGTATATAAAATAAA
CTP36A	No significant match		CAAGTTTTACCATTGTTTTAATTAT TGAAACAAAATTAACGTAAGTAGA ATCATGTGCAACAGTGTCTCTAAC ATATGGAAGAGGTAAATATGAATT TTATACAATAAGGTATATTATCCAC TGTAACAAATTTCCAATAATTTGGC ATTTATCTTTCACAAAATGTCTCCC AAATTCTAAGCAAAGTATGCAAATT GGAGATTAACTCTAACAGGCATA ATTATCTTCTTATCCAGTTTTTCTG AAGAGACTGAAGAGTTCAGGTCTG ACCAAAGCTT (SEQ ID NO: 238)
CTP37A	Homo sapiens nuclear factor associated with dsRNA NFAR-1	AF167569	CAGATGTGATAAAATCGTTTTCATT ACTGTCAAAGGCATCAACCAGATT TGGGAATTTGTTAAAAGGTTAAAA ATTCATACAAAACCTGCTGTAAATT AAGACAAAGGTAGATTAAAATGCA TCATTATCTGTCTCTTAAATAAAGT AATGCTTTCCATAAAAAGCAAAGG TGGGCTTTTGCCTTGATGCTGACC AAAGCTT (SEQ ID NO: 239)
CTP41B	Homo sapiens mRNA for KIAA1392 protein	AB037813	GGGAAGTGTCAAGGATCAGTTCC GTGGCACCCTCTGACCACAGACT GGGAGCAACACGCATCTGTGGCA TTTAAAAATGGAATTGGCAACTTC ATGACATTGGAATGCATATCACAC TTACAGTGTCTAGACTTTCCTATGT GTGCTCAGTTACAAGTAGTGAAGC AAAAGTATACATATCACCCCTACT GCTATTCGGTTGCTACAGAGCCAT AAATGTGAAAAGCAATACTCTGAA ATAAAGATTTTTGTTTTTTTGCCCTA GCCTACTAAGCTT (SEQ ID NO: 240)

CTP47G	No significant match		AAGCTTGCACCATACTCCTCCTCT ACATATGCTCCCAAATTACCTTCTA AAAAGGCTGTATTAATTTACTTTCA CCAGTAGTATTATGAGAGTGCCCA TGTCCCTTAGCCTTTTAAAATTCAC TATGAGCAATCTTTAAATCATGTAC TAAATCTTATAGGCAAAGAATAGG GCCTTGCCCCTGCCCCTGTT (SEQ ID NO: 241)
CTP50A	No significant match		ATTCCTTTTCCAAGGACCTCTCTT CTATGTGATCACTGAGTAAGTTCA GTCACTCCCATCATCTCTAGATTG GAGATTTCCAAATTTATGGCCTTT CCTAACTTTGAAGTCCTTATTTCTA ACTGCCTACTAAGCTT (SEQ ID NO: 242)
CTP51A	Homo sapiens intestinal N- acetylglucosamine-6-O- sulfotransferase	AF219991	ATAAATAGAGATGGGGGTCTTGCT ATGTTGCCAGGCTGGTCTTGAACT TCTGGGATCAAGCAATCTGCCTGC CTTGGCCTCCTAAAGTGCTGGGAT TACAGGTGTGAGTCACTGTGCCTG GCCTCATATAGTCACTATAACAGC CTACTAAGCTT (SEQ ID NO: 243)
CTP52B	No significant match		AAGCTTAGTAGGCAATAATAGAGA AGTAGAAATTGAATGTGGAACATT AACCATTAAAAATCATACTTTTGAA TGTGCTGAGGTCATGAATTGTTTT TACCTTCTTTGTAATTTGTGTTTTT CAGATTTTCTGTAGTTAGCATATAT TCTATAATCAGAAAAAGATGCTTC AAGTTTTTTGCAGATTTCACAGAAT TTTGTTT (SEQ ID NO: 244)
CTP53A	No significant match		AAACAAAATTCTGTGAAATCTGCA AAAAACTTGAAGCATCTTTTTCTGA TTATAGAATATCTGCTAACTACAGA AAATCTGAAAAACACAAATTACAAA GAAGATAAAAAACAATTCATGACCT CAGCACATTCAAAAGTATGATTTT AATGGTTAATGTTCCACATTCAATT TCTACTTCTCTATTATTGCCTACTA AGCTT (SEQ ID NO: 245)

CTP58A	No significant match		AATTGTCACGAACAGGGCTGACTG ACACTGCAGTGTGTCCTTGTTTGT TGATCCCTGATCTAGGCCTCGGCT TTTCAAACTGCAGTTGATCAAACT GGGATATGCTTCGGCTGAATCTGC TCTCTGGTGCTTCTCTTTAATCGTT TTCTCCTTAAATGGGTTACTTTCTT ACTAGGAAAAAAAAAA
CTP59A	Homo sapiens cyclin D2 (CCND2)	XM_012143	AGGTCAAGGTGAGTTTATTGTCCA AATAGCATAACCTAATTGCATTCAA AACCATTTTCAAATCCATCTTTAAA CTAGTCAGAAAACAGGTTATTATTT TTTTAAATCACTTAACACTGAACAG ATAAGACCTCTTAAAAGGCAGCTG ACTATATCATGTCACCATCATAGC CAATACAACATTTTTGCCATACTTC CTAAAAACCTTTTCGCATACACTG ATCATGCTACTTATCAGCACTTTTT AACATCCTGACCAAAGCTT (SEQ ID NO: 247)
СТР60В	Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1)	XM_016120	ACTAAAATAAACCTGTTCGGGGGGAACAGCTACTAGATGAATTTAAGGGTTTTATGCACCTTATAGAACTTATAGCAAAAAAATAGTTTTAGTTGATTCATATAAAATAACGTTTTCAAGAACCTGTGCAAAACTGTCAATAATTTCCTAAAGCACAATTGATCAGAAAAATCCATGATTCATGATCAGCCTTCACACCCTTCTTCATGTAAAGCACACTTCTCACACCCTTCTTCATGTAAAGCACACCTTCTGTACATCTCACAGTTACTTATTAGGTTGAAAGGTATATGGTGAATGGTCATTAGACGTCTCGACAGCCACCTGCTGCTGACCAAAGCTT(SEQIDNO: 248)
CTP61D	prion protein [mink, Genomic, 2446 nt]	S46825	ACATTAAATGCCCAGTGCAAGCCA GGAACATTGCAGAATGCTAAATTT ATCTGCTAGGTGATGATATTGAAC GATCTAGACAATAATTTCACCTTAC TTAAATAACAATGAACAGAATTCCT TTTTTTCCACTCTGAGTGGATATTT CTGTCATCTCTGACCAAAGCTT (SEQ ID NO: 249)

CTP62A	No significant match		AAGCTTCGACTGTCGCATCAATGA ATGTTTAAGTAATAACTTTGCTGG TTATCAGCTTGATGGTGCATTAATT TTATGGCTCATTTCCTTTATTTTGA CCATTGTCGGATTCTTCATTTTATA TTGGACGATCCCCAATCGAACGGT ACCAATTTTTTCAGCTGTGATTGC GGCATGTTTCAACGCGACCGTTTT TGAAATTTTAAAACATTTATTTGGC TGGGTCATGAGTAATTTCACCAGC TATGAAATCGTTTATGGTGCTTTTG CAGCAGTTCCTATTTTTCTACTTTG GATCTATCTGTCTTTGGAATATCATT TTATTGGGTGTAGAAGTGAGTTAT GCACTCACCGCCTTCCATTCTGGT (SEQ ID NO: 250)
CTP63A	No significant match		AGAATCAAGCCACCAGGTGTTTAT TTTTGCACTATAAATAGAGTTCCCT AGTCCCATTTTGTTACATAATATAT GAGATAACAGAGAACCTAAAATTC ATTTGGTGAAAATCAAGTGTGTAG TATACCTAAATACCAATGAGCTAG TAAGACTTGTAAGGCACTGAAGCT AAGGCTAACAGCAACAGAGTCCTT TATGAAAATAATTTCAGAACCACAA CGCATTCTCTGATGGTGCATTCCC CTGGGACAGTCGAAGCTT (SEQ ID NO: 251)
CTP64B	No significant match		CATCGCAGACATTTATTTTAGTTTT GTTAATTTCAAATATTCATTAACCT CTTGTATCAGATTTAAGGCAGAGA AAAGATACACGCCCCTGGTTAACT GAACCGGGGTTTAGATAGTGTAGT CCACCCTGGGTTCCACCAGGGAG ACCTCACCCGAGATGACAGGTCC GGTTGCTGGTGCACAGTCGAAGC TT (SEQ ID NO: 252)
CTP65A	Pig mRNA for endoplasmic- reticulum Ca(2+)-transport ATPase (class 3 non muscle transcript)	X16951	CCATTTAAAATGTTTTATTTTCCTT TTTAAACTAGATTGTGAAGTGCCA CTGAAATAGGCAATGTTGGCAAAA CAATGTCTGTTACAATAAAATACAT TAGACATTTAAATAAATAACCTTAA AAACTACATGGGGGGACATGAAC CCAGTCGATTGAATCTGGAACAAT GTTTTCTGCACAAGCGAGAACAGG CATACCTCTTGTTAAGACTGATGT AAACAGAACCATCGGAACCCTACA GTCGAAGCTT (SEQ ID NO: 253)

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CTP67A	clone RP5-1071L10 on chromosome 20	AL133228	CACGTTTTAAAACTTTATTTGCATA TTAAAAAAATTGTGCATTCCAATAA TTAAAATCATTTGAACAAAAAAATG GCACTCTGATTAAACTGCATTTTAA CAGCCTGCAAGATACCTTGGGCC AGCTTGGTTTTTTACTCTAGATCTC ACTGTCCTCCCACCCAGCTTCTTC CTTCACCAACATGCAAGTTCTTTT CCTTCCCTGCCAGCCAGCCAGAC AGGCAGATGGGAAAGGCAGCAC CTTCGTTGTCAGTAGTTCTCCATT CTTTGATGTGAAAAGGGGCAGCA CAGTCATTTAAACTCGATCCAACC GCTTTGCATCTTACAAAGTTAAAC AGCTAAAAGAAGTAAAATAAGAAG GCAATGCTTGTGGAATGTACAGTG CATATTGGCGGCGCACGCCTCATT ACGATTCGGCTACTAAGCTT (SEQ ID NO: 254)
CTP68F	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha Rabefla2)	U09823	CTCATTAAACTTTTGTTTTAATGGG TCTCAAAATTCTGTGACAGATTTTT GGTCAAGTTGTTTCCATTAAAAAG TACTGATTTTAAAAACTAATAACTT AAAACTGCCACACACGCACAAAAA AAAAAAAAAA
СТР70А	No significant match		AAGCTTAGTAGGCACGCAATAAAT AGGAGAATGAATCAGAGTCCTCCA ACGCGTCCTCCCTAATGTCCCTTT GAGCTGCCTCCTCTTCCACTCTGC CTCAGCTTGTCCATGTCACTTCGC TCCAGAGCAGCCGCAAGAGCATC TTAACACCTTGTGGCCTGAACTCT CTCCCATCCTCCACTGTACAGTGA TATGACTGAAACCTCATTTAACCTT TTAGAACTACCAGGAGGAGGTTCC CAAGGATCCCAGG (SEQ ID NO: 256)

CTP71A	Canis familiaris caveolin-1 mRNA	U47060	CACTGAATCTCAATCAGGAAACTC TTAATGCACGGCACAACTGCCCAG ATGTGCAGGAAAGAAAGAATGGC AAAGTAAATGCCCCATATGAGTGC CATTGGGATGCCAAAGAGGGCAG ACAGCAAGCGGTAAAACCAGTATT TTGTCACAGTGAAGGTGGTGAAG CTGGCCTTCCAGATGCCATCAAAA CTGTGTGTTCCTTCTGGTTCTGCA ATCACATCTTCAAAATCAATCTTGA CCACGTCGTCGTTGAGAAGCTT (SEQ ID NO: 257)
СТР72В	No significant match		CCATTTTTGCTCTTAAAGAGCATCT TAAGTGAGAGAGCATCTT TGGCCACTCCAGGTTTTCTCATCT ACTACATGATCTGTTCCCAACAAT AAGCCATTGAAATTAAAGGTCTCC AGAAGTTTTATCTGGGGTCTGTGA TTGAAAAGAAGGAAAATGAGATGA GAGACTGCCTACTAAGCTT (SEQ ID NO: 258)
СТР73А	Homo sapiens chromosome 11 clone RP11-546N8 map 11q	AC026201	CAAGCCCATCAATTAGTGTTCTTTT TATAGACATTACACACACACACATAT ATAGTGACACAAACACACAAGATTCA ACACTTGTAAGATTTTTTATTTGCC AGTTTCTTAATTGGATTACTGGCAT CAGGGTGGAAACTTTAGAGGAAG AGAGCCAGGTAGCATGCATTTCTA GGGCCTACTAAGCTT (SEQ ID NO: 259)
СТР73В	No significant match		CCCATAAGAAACATCTTTAAAACAT TCAGAATACTCAGGATAATCAAGG CTAATATTCCTATAAATTCCTTACG TGTATTATGTACATTCAGAAAAGT GTAAATTACTCAAATATTATACTCA AAACCCCTTATAGTCTGCTAACTT GCATGTAGAAACATCTGAAGTAAC ATGCTGCCTACTAAGCTT (SEQ ID NO: 260)
CTP74A	No significant match		AAGCTTAGTAGGCATCAATTGGAT CCTTTCCTATGTTGAAATGGAAGA ATTAATGAGCTTACATTAATTAGTA TTGTAATGTGTAAAGGAAGCCCAG CAAAATTTTTTGAAAACTTGATGAT CCCAACGTATTTACCATTGTATGTT AAAGCAAAATAAATCACCATTTTTT TA (SEQ ID NO: 261)

CTP75C	No significant match	AAGCTTCTCAACGGCCTCCACCTC CTTTCTGCCCTCACAGCCTCCTGG CTCTGGCCCAAAAAGTGATTCATT TGTAAATTATCATGGTTTTCTGCAT TAAAATGGCCATTTCTGG (SEQ ID NO: 262)
CTP76B	No significant match	AAGCTTTTACCGCCATCTTGGCTC CTGTGGAGGCCTGCTGGGACCAG GACTCCTAAAGCGACGANTTTTTN TGGAAGGCTTTGGTCCAAGGCCA TTTTTGCCGGCTATAAACGGGGTC TCCGGAACCAAAGGGAGCACACA GCTCTTCTTAAAATTGAAGGTGTTT ACGCCCGAGATGAAACAGAATTCT ATTTGGGCAAGAGATGCGCTTATG TATATAAAGCAAAAGAACAACACA GTCACTCCTGGCGGCAAACCAAA CAAAACCAGNAGTCATCTGGGA AAAGTAACTCTGGGCCCATGGAAA CAAGTGGCATGNGTTCCGTGCCA AATTCCGAAGCAATNTTCCTGCTA ATGCCATTGGACACAGAATCCGAG TGATGCTGTACCCCTCANAGGATT TAAAACTAACGAANAANCAATAAA TAAATGTGGATTTGCGNTCTTNGG (SEQ ID NO: 263)
CTP77D	No significant match	CAATTGGTTTAGTTTTATTTCAAAA TTGTACAAAATGGCCATAAGCGGC TATAAAAAATTTCGTTTTCGGAACA CGTGGAAATTCAGAAAGAACAACA AAGCAGGTTATCATTTCACAGTGT AATGGAAAAGCTCTCTCTGAGGCA GGAATCACAACTCTTCCTTCTTC CCCAGTCTCTCGTGGTCTCCTTC CCGGAGCGCTCGAATGAAACTGG TAAACCCCGATTCCGTCCGATCGC (SEQ ID NO: 264)

CTP78B	Homo sapiens SON DNA binding protein (SON	XM_009738	CGATGTTGAGATCCAGATGACACA GGAAATTCTTTTGTTAATGTTACCT GGCTTTTTGGTGGAGTTGGCTTTG CTGCAGCAATATTCAGATTGAAAA AAATGGGTTTGGGTTCACTGAGTT TAAAGGGATGATGATAAAAAGGAG GTTCTTCTTCCTCTTCATCCCGAA ACATGAGGCTTATTCACTATTACAT CATCATCTTCTTTACTCTGTGCGAT CTGTTTGCATTTCTCAAGTTAGTTC TTCTATAGTNGCTCCTCCTGATTTT TTAGCAACTTTCTCTTCTATTGTGG GTGGAGGTGCACGCTTTTAGGTTT GGCGGGTAAAAAGCTT (SEQ ID NO:
СТР79В	No significant match		265) CATATATATTCTTTTTTATTTCTTGT TATACCTTCCCAAAACAGAGACAT TCAACAGTAGTTAGAATGGCCATC TCCCAACATTTTAAAAAAAACTGCA CCCCCCAATGGGTGAACAAAGTAA AGAGTAGTAACCTAGAGTTCAGCT GAGTAAGCCACTGTGGAGCCTTAA GTGGTGAGGTCTTCCAATTTCAGA GTGATGTGTCTTCAACTTGTATCA TCATTTTAGCGGTAAAAGCTT (SEQ ID NO: 266)
CTP80A	Homo sapiens WDR4 gene for WD repeat protein	AB039887	CGCCGGCCAGAAAGCGTAATATT CTTTAAAGGAACCTTAACAAAACTT TACACTTAATAATGTAAATCTCACC ATGTTCCTAGTCAAAAATTTACTAC ACAGACTCAGTAGCGGTAAAAGCT T (SEQ ID NO: 267)
CTP81A	No significant match		CCAAAGAAGTGTTTATTAACATTTG GGGCCTCAGCGGGGCCAGAGAG GAAGTGGGTGCTAGAGGCTCCTG AGGCTCAGGGCAAGGCCTGCAAG ACAGATCCCATTGCTCAGGAGGC AGCCCAGATTGCAAATGGAAGACA GGCCATGGTAGCGGTAAAAGCTT (SEQ ID NO: 268)

CTP85D	Homo sapiens Rho-associated, coiled-coil containing protein kinase 1 (ROCK 1)	XM_008814	AAGCTTAACGAGGAGACAGAGGT CATGATTCTGAGATGATTGGAGAC CTTCAAGCTCGAATTACATCCTTA CAAGAGGAGGTGAAGCATCTCAA ACATAATCTTGAAAGAGTGGAGGG AGAAAGGAAAG
CTP86F	Homo sapiens chromodomain helicase DNA binding protein 3 (CHD3	NM_001272	AAGCTTAACGAGGACCCAAGAAG CAGAAGGAGAACAAGCCAGGAAA ACCCCGAAAACGCAAGAAGCTTG ACAGTGAGGAGGAATTTGGCTCT GAGCGAGATGAGTACCGGGAGAA GTCAGAGAGTGGAGCAGCGAAT ATGGAACTGGACCAGGTCGGAAA CGGAGGCGGAAGCACAGGG (SEQ ID NO: 270)
СТР87В	Homo sapiens tetratricopeptide repeat domain 3 (TTC3	XM_009760	AAGCTTAACGAGGCATGTGAAAAT TATGAGCAGAGAAAACTCAAGGG CTCAGAAGAGACCAGGGATCTGG AAGAAAAATTGAAAAGGAACTTAG AAGAAAACAAGATCTCAAAGACAG AATTAGATTGGTTCCTTGAAGACT TGGAAAAGGAAATCAAGAAATGGC AACAGGAG (SEQ ID NO: 271)
CTP88A	Rattus norvegicus ribosomal protein L31 (Rpl31	NM_022506	AAGCTTAACGAGGATGAAGATTCA CCAAACAAGCTCTACACGCTGGTT ACCTACGTACCTGTCACCACTCTC AAAAATCTACAGACTGTTAATGTG GATGAGAACTAATCGCTGATTGTC AAATAAAGGTATAAAACTGCTCCA TG (SEQ ID NO: 272)
СТР89В	Homo sapiens genomic DNA, chromosome 8q23, clone: KB1935H12	AP003473	CTAAAGGGCCAGATAGTAGCTGT GGGCTGGGGTCTCAAACTGTGTT GCCCACTACTCAACTCTGCCATTG TAATGTGAAAGTAGTCACAGACAA AATATAAAGAAATGAGTGTGACTG TGTTCCAATAAAACTTTATTTACAA AAGCATTCAGTGGGCTGGATTTGG CTTTTGGGCCATAATTAAATCCCC TCTGGTAAAATAATCACTATTTTAG CTGGATCATGAGTACGTGGAAGCT T (SEQ ID NO: 273)

CTP90A	Homo sapiens clone 24800	AF070622	ACAGGTTTCATCTGAATACATATTT ATTAGATAAATATTAGAGGTTGTCA CATCATCTAACTACATACAGCTTT GCAAGACTAGAAATCACAATTAGT TTTTTGACCAGTTTAAAGTATGAAA TGATTGCATTGTACATACGATGTA CAAAGACGATGATGGTTTCTGTGG GAGTTACTTCAGGCTGCACTGGTG GGTGTGTTTATGTGTGTACGTGAAA AGCTT (SEQ ID NO: 274)
CTP92A	No significant match		GCACTAAATTCAAACCAATGACCT CCCATGTTCTAATTCTGATTGTTTA ATCCAACTGGGAGGGTAAACGGG AGACTCTTTGGCCTGTCAGTGACA AAATGGTTTGTAAAAAAGAAAAAAT AAATACGATATACAAGTAAGTATAA CTAGCACTCAAGCTT (SEQ ID NO: 275)
CTP92C	Human DNA sequence from clone RP4-580N22 on chromosome 1q42.2-44	AL133286	GGGGTGTTGAAGAGCCTTGTTTTG TCATATTACCAGAGTTGGTTTTCT GGTTCCTTCTCATTTGGGTAGGCT CTGTCAGAGAGAAGGTCTAGGGC TGAAGGCTGTTGTTCAGATTCTTT TGTCCCAAGTGGTGTTCCCTTGAT GTAGCACTCAAGCTT (SEQ ID NO: 276)
CTP93F	clone RP1-211D12 on chromosome 20q12-13.2	Z93016	AAGCTTGAGTGCTGTTGCTGATGT ACAACTTAAAAATGTGAAGTTTGTA GCTTTAACTTTTTGTAATAAAAACT AATAACACTGGCTTAAGTGCTGAC TTGAAATGCTATTTTATAAAGTTTG GATGTAAATAATCAATCGAGGTCA GCAGTTTGTATATGTAGGAGACAT AGCTTCCTCCCTGCACCCCCCATT TTTTTAAAATTTGAGGTGCTTCCTG TGTGTTTTTATGTTAGAATTGTTCT CCCTCCTTCCTACACGTGGTCACC TTTGTTTTAAAATAAACTGTCCTTTG G (SEQ ID NO: 277)
CTP94B	Homo sapiens clathrin, heavy polypeptide (Hc) (CLTC)	NM_008305	AAGCTTGAGTGCTGTATCCTGTGC TTTTTCTGTGGGACCATTCCATT

СТР99А	No significant match		AGCATATGTAAGATCTCTGGCTTG TAGAAGACAAGTTTATATAGCACT TAAAAAACCATTTGTTACATTAAAT GTCGAACTCAAACTTTTAAAGAGT ATAGAGAACTACAAAATGGAAAAA GGAAGCAGATATACGCTTTATGAG GAAATTGTGTTAATGATCTCTCCT CTAAAAAAGGACTCTTCCCTATTAT CATAATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACATTA TGCCGAAGCTT (SEQ ID NO: 279)
CTP100A	COX15 (yeast) homolog, cytochrome c oxidase assembly protein, clone MGC:8634	BC002382	AACATATAAAAACATTTATTCACTA GGAATAATTGTGGCAGACACAATC CAGTGAAAGCAGCTCAATCCTGCT CAGTTAGGCTAGTTGAAGAACCAT ACTTTAAAAAAAAGAAAGGAAGACA GGCAAACAAGTGTTTTACAGGAGC AACAGACTTCAAGGTCACCCCCAC AAGACACCCTGCACAGCAGGAC GGGGACAGGGAGGATGACCTCTT AGGGCCTGTGCCTTCGCAGAGGT GCTCGGCGGATGGGTGTGTTT CTTGGGTGTCTCCTCTTCTGTCAT CTATGCCGAAGCTT (SEQ ID NO: 280)
CTP103JJ	No significant match		AAGCTTCGGCATAGTTACTGTTTG ATTTTAAGTTTTTATATAGTTCTTA GTTTTGAAGAAATCCTTCAAGAAC AGTTTCTCTAAAGAGCATGTTTTAA TTAAATGCTAATTAATTACCTTTCT TAGTTTTCCAATTTAGTAGGCCAC TTTCAATGTCTATTAAAGTGAAATA AACCTTCTGAACTTAAACATTTTTA AATCGATTAAAAATTGTGTCAAAAT (SEQ ID NO: 281)
CTP104I	No significant match		AAGCTTTTTTTTTTCAAAACGGAT TTGTAAAAACTGTATTTCTTACACT GTGCACAAACCTTTTATACTAAATA AATATCAAACTACATTCTTCAGAAA GATGTTTCTAGTATTTTTCTTAGGT CACTTCCATATGTAGTATGTACAG TGAGACCACTTTTTAAAAAGCAAT GACTTAGGCAAACCAACCCTAATG GTTTGTTAGACCATTTCCCTGTTTT TAATTAAAAATCATAGGGTTGTGC TTCTGTATAAAATCTGACATT (SEQ ID NO: 282)

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CTP109P	No significant match	ATGCAACCACACGGAATTTATTGA ACATTTTCACAAGTGATTTCATTAA AGGAAGGCTTTTTCGTGCCTATAT TGGTTACCATCACTTTTGCCCCTA TCACAATCTCATGGTGTAGTCCTT GCATGTAGCAGGAACTCAACAAAT GTCTGCTAAATTGACAGATGGAGC CCCAGACGACCTAAAACTTGCACT TTAGAAGCACTTACTTCATCCTGA GCTATTATGAATAAGGAACTCAAG TGACTGTTAAAAGCATTCTACTGA TGAGTTGGTAATGTTCTAAAGCAA CATATCTCAAAGGAAAGG
CTP110A	No significant match	AACATATAAAAACATTTATTCACTA GGAATAATTGTGGCAGACACAATC CAGTGAAAGCAGCTCAATCCTGCT CAGTTAGGCTAGTTGAAGAACCAT ACTTTAAAAAAAGAAAGGAAGACA GGCAAACAAGTGTTTTACAGGAGC AACAGACTTCAAGGTCACCCCCAC AAGACACCCTGCACAGCAGGGAC GGGGACAGGGAGGATGACCTCTT AGGGCCTGTGCCTTCGCAGAGGT GCTCGGCGGATGGTGTGTCTT CTTGGGTGTCTCCTCTTCTGTCAT CTATGCCGAAGCTT (SEQ ID NO: 284)
CTP111A	No significant match	AAGCTTCGGCATAAACGATCCATT CTCCTCGGCCTCCCAAAGTGCTAA GGTTCCAGGCGTGAACCACCATG CCCAGCCTGTTCTTTTTTTATCTC TAGGTGGTGCTCTCCAGCTGTAGT AGAAATAGCATTTGTATTGGATCT ATTTTTTAAATAGGGACTAAATAC AGACCATTTTGTTAGAGTGAAATG CCAAACAAGAACGAGATTTTTCTC TTGGCT (SEQ ID NO: 285)

			CTCAGTTCAAGTTTAATAGAAACA ACAAAAGATCAAAAGTGATGCCTT
CTP112B	Bos taurus peroxiredoxin 1 mRNA	AF305561	GCTACTACTGTACATATCAGTTGG CCTGCCCCATAGCACACCCTCAGA CCATCCTCTCCAGAGGAAGAAAG GCTGGCCTCCCCAACCCCTGCAG GAAAGGGCGGTCTTGTCCCATAC CACATACCACATCTGCAGAGTCTA AAGTCTTGTTATAAGCATGACAAT AGTACAAAAAAAAGATTCTGTTTCA TGGATCCCCCACTACAGCCCGGA CCTAAAATGGCGAGGCGCTCACTT CTGCTTAGAGAAATATTCTTTGCT CTTCTGGACATCAGGCTTGATGGT ATCACTGCCAGGCTTCCAGCCAG CTGGGCACACTTCCCCATGCTTGT CAGTAAACTGGAAGGCCTGAACC AGTCGCAGTGTCTCATCCACAGAG CGACCAACAGGAAGGTCGTTTACA GTGATATGCCGAAGCTT (SEQ ID NO: 286)
CTP113A	Bos taurus ribosomal protein L30 mRNA	AF063243	CTAGTTAGAGTCAGATGTTTATTTA AAAATCTGATCCACTAAAACTTAG CGTTTTCCACCAACTCGGGGTGC GGAAACCTTCACAGGCTTCACAAT CTTTTGCTTAGGTGCTGCCTTTGT GGGAGCCTTAGCAGCAGCCATTG CTGTCTTTTTAGATGCTTGCTTAG CCTTTTTTGCTTCCTTGGCAGCCC TGATGGCCTGTTCTCGTTGAGCCT TCCTAACTTCAGGTTTCTGATTCCT CTTAGCCATTATATCAGCAAGAAA TGCCCCAGTGATGGCCCTCTGGA ATTTGACTGCACGGCGGGTTCTTT TCTTCTGAATTTCTTCCGACTGTC CCTTTTTTGTGCTTTCTTCTGTAGAG GACAGTCCAGTTGATATGCCGAAG CTT (SEQ ID NO: 287)
CTP115B	Homo sapiens chromosome 17, clone hRPK.227_G_15	AC005899	CTAAGGTGATATAGAAGTGGACTA AGGGAGAGCCAAAGTTGGCAATC CCATTAATCTTACAACTTCCTAAAT TATGGCAATCACAATGCCTGCCTG AATGAATATAGCAAGTCCTAAAGG ATGTCTTCTGTGAGGGCAGATGGA AGTTTACTTCAACTCAAC

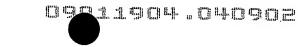
CTP116A	No significant match		AAAAGAGCATACTTATCAGTTGAA TGGGGATAGAGGTTTTAGATATTT TCCAAAATATTTATAAAACACTTCA TTGTTGAGAAATCACTTACAGAAT GGTGGCTATCAAACAAATAATTAT AAATTTTTAAAGCACAAGTCACAT GTTTTGTAACTCCTGTGTGAATTTA TTTTAGCTGTGACATTTAATTGAAA ACATCAGATATGTTTTGGAAAAGT CTTAATTTGAGAACAACTGAAGGA AGTTAATCCAGAATCTATATGTAGT TAGCTATTAATGATGATGTTTTG GACAGTATATTGCTAATATTTCT TCATGAAATCTGAAGTTAAATAGTT TCGTTGTGGAATCTGAAGTTAAATAGTT TCGTTGTGGAATCTGAAGTTCAATAA ACCAGCTTTGCCATAAAAAAAAAA
CTP117B	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN (RBP-J KAPPA) (M. musculus) (LOC82995),	XM_017740	AAGCTTTTTTTTTTTAAGCTGATGT CTTATGACTTTTTATGAGTCGAAAT TGTTTTGATTTCAGCAAGTCAAATC TTGTAAAGGCCCGCGTATTTTTTTT AAGATTATATGAAGTCTGTGCAAA AGCTTTAAAAAGAAATGCCTCTGC CTTGCCTGCAATACATGCAATGTA CGTTAACTTCGTCTCTGTCCTCAG ACACTGTCCGTATTTACTTCCTTGT TTTCCTTTTTCTTAAT (SEQ ID NO: 290)
CTP119J	Homo sapiens SPR-2 mRNA for GT box binding protein	X68560 S52144	CAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

CTP121D	Human ribosomal protein L23a	U43701	AAGCTTCATTCCGACGACCCAAGA CCCTGCGTCTCCGAAGGCAGCCN AAATATCCTCGAAAGAGCGCCCCC AGGAGAAACAAGCTTGATCACTAT GCCATCATCAAGTTCCCCTTAACT ACTGAGTCAGCCATGAAGAAAATA GAAGACAACAACACACTTGTGTTC ATTGTGGATGTCAAGGCCAATAAG CACCAGATCAAACAGGCTGTGAA GAAGCTCTATGACATTGATGTGGC CAAGGTCAACACCTTGATCAGGCC TGATGGAGAGAAAAACCCTTGATCAGGCC TGATGGAGAGAAAAAACCCTTGATCAGTTCGACTGGCTCCTGACTATGATGT
CTP122I	Human mRNA for KIAA0033 gene	D26067	AGCTTTTTTTTTTTGGGACTGCTT TTGATTAATGCAGTTATCCAATTTA AGTGTTTTTACTTTAACTCAAAGTA AAAAGAAATTCTCACATGGTAACT ACTCTATTTAAATGGTCCTGGAAA CATTAAACAGCTTTCTGCTGCTTG CTTAATGGTAATACCTTTGATTTCT TGATTCTAGGACATACCTTGATTTTA ACCTTCACCCAAGACTGTCAATTTT ACCTTCACCCAAGACTGTCATGTT TAAAATACTTTAGCTGTGGGAGAA ATCCTTGTCTGTTTTTATTGTGAGA GGAATGGTCATCCTCAAAGTCTGT TTCTACTACATAATGTGGACTAATT ATTTTTCTATCACAGTATTAACAA ATGGATTTATTGTAAATACAAAGAA GATATTAATATACTATTCTTATGTC (SEQ ID NO: 293)

			ATGGCAAAGCTGGTTTATTGAACT
CTP124B	No significant match		TCGTAAGGGAAATGTTACAGTGAC ACTATTCCACAACGAAATTATTTAA CTTCAGATTTCATGAAGAAATTATTTAA CTTCAGATTTCATGAAGAAAATATAT TAGCAATATACTGTCAATAAAGCA TCATCATTAATAGCTAACTACATAT AGATTCTGGATTAACTTCCTTCAG TTGTTCTCAAATTAAGACTTTTCCA AAACATATCTGATGTTTTCAATTAA ATGTCACAGCTAAAATAAATTCAC ACAGGAGTTACAAAACATGTGACT TGTGCTTTAAAAAATTTATATT TGTTTGATAGCCACCATTCTGTAA GTGATTTCTCAACAATGAAGTGTT TTATAAATATTTTGGAAAATATCTA AAACCTCTATCCCCATTCAACTGA TAAGTATGCTCTTTTAAAAAAAAAA
CTP126A	No significant match		AAAGAAAGTAATTATGGAACTAGA TTITTAACATTGTAAAATACTAAAT GATCCTTCAGTTGTAAAGTTGATAT ATATTTGTAACCTTTGTGAAATTGT ATCCTTATGAAAATACCACTTTTGT GGAAGAGAGAGAATCCAACTATGTAA TATTTAATTAAAACAATCCATGTTT ACCCTATCCCTGCTCAATTAAACA GTGTATATAGGTCTAATAATAGCT CTGGAGCAACTTTTATCATGAGTC AAATATATTAAACACATTGATGTCT TCTTGGTATATCTGAAAACAAGAG GTAGAAGTCCTGTTGAGAGTCTTT AAAAAAAAAA
CTP129A	Homo sapiens, Similar to cadherin 1, type 1, E-cadherin (epithelial), clone MGC:1151	BC007583	AAGCTTCATTCCGACGACCCAAGA CCCTGCGTCTCCGAAGGCAGCCG AAATATCCTCGAAAGAGCGCCCCC AGGAGAAACAAGCTTGATCACTAT GCCATCATCAAGTTCCCCTTAACT ACTGAGTCAGCCATGAAGAAAATA GAAGACAACAACACACTTGTGTTC ATTGTGGATGTCAAGGCCAATAAG CACCAGATCAAACAGGCTGTGAA GAAGCTCTATGACATTGATGTGGC CAAGGTCAACACCTTGATCAGGCC TGATGGAGAGAAGAAAGCATATGT TCGACTGGCTCCTGACTATGATGC TTTGGATGTTGCCAACAAAATTGG GATCATCTAAACTGAGTCCAGCCG GCTATAAATCTAAATATAAATTTTT TCACCAT (SEQ ID NO: 296)

CTP131B	Homo sapiens similar to sperm autoantigenic protein 17	XM_006087	AAGCTTCATTCCGGGGACACATAG CCAGAGAGGAGGCAAAGAAAATG AAAACAAATAGTCTTCAAAATGAG GAAAAAGAGGAAAACAAGTGAGG ACACTGGTTTTACCTCCAGGAAAC ATGAAAAATAATCCAAATCCATCAA CCTTCTTATTAATGTCATTTCTTCC TGAGGAAGGAAGATTTGATGTTGT GAAATAACATTCGTTACTGTTGTG (SEQ ID NO: 297)
СТР133В	No significant match		CCAAAAAGAGCCATGCCCAGAGG GAAAGTTGGAAACGAAAGCCAAGT TTTCATTTAAAAGGAAACANTAAAG AGGTTAGCCAGAGAAACTTGAACC AAAGAAAAGA
CTP134A	No significant match		CCAAAAAGAGCCATGCCCAGAGG GAAAGTTGGAAACGAAAGCCAAGT TTTCATTTAAAAGGAAACATTAAAG AGGTTAGCCAGAGAAACTTGAACC AAAGAAAAGA
CTP135A	Homo sapiens cDNA FLJ11508 fis, clone HEMBA1002162	AK021570	CCATCAAATGTAATTTATTTAAATA ACAATTCAATTGCATGTTAAGTAAA CCAGTTGTAGCAATATAAAAATAC AGAATTTTGAGAAAATCTGGCAAA TTAAACCTGTATCTAAATGCAGCA TATTCTGTGATACTACGGAATGAA GCTT (SEQ ID NO: 300)
CTP143B	No significant match		AAGATTTCAAAGAGTGAGCAAGTG CATTAGCAGGGCAGAGAGAGAGG CAGCAGCAGACTCCCTGCTGAGC TGGGAGCCAACTTGGGACTCGAT GCCGGGACCCCAGGATCATTACC CGAAGCTT (SEQ ID NO: 301)

CTP144B	No significant match		GGGTAAATCCGTCCAGTTTACTGT AAATATGCCTTTGACAAACTGGTA ACTCATGTCCCATCCCA
CTP145B	No significant match		GGACTGATAATAATAGGATTTTATT TCTAAAATTTATCTTAGAGCTTTCA AAGAGTATAACACACAGATCTTTA CCACCACACCCCCCTTGCCTATAC AGGAAACAACCAAGTTGTGAGAAC ATTTATCATGCACAGACACATCAG GGCTTGCAGGTGCTACACAGGAA TCACAAATGCTGTTCCACATCATG TCTTCTGTTATGCCGAAGCTT (SEQ ID NO: 303)
CTP148B	Homo sapiens serine-threonine protein kinase (MNBH)	AF108830	AGCATATGTAAGATCTCTGGCTTG TAGAAGACAAGTTTATATAGCACT TAAAAAACCATTTGTTACATTAAAT GTCGAACTCAAACTTTTAAAGAGT ATAGAGAACTACAAAATGGAAAAA GGAAGCAGATATACGCTTTATGAG GAAATTGTGTTAATGATCTCTCCT CTAAAAAAGGACTCTTCCCTATTAT CATAATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACATTA TGCCGAAGCTT (SEQ ID NO: 304)
CTP149B	No significant match		AGGAAGAATAAAAACATATAAAAA CATTTATTCACTAGGAATAATTGTG GCAGACACAATCCAGTGAAAGCA GCTCAATCCTGCTCAGTTAGGCTA GTTGAAGAACCATACTTTAAAAAA AGAAAGGAAGACAGGCAAACAAG TGTTTTACAGGAGCAACAGACTTC AAGGTCACCCCCACAAGACACCC TGCACAGCAGGGACGGGAC



CTP150A	No significant match		AGCATATGTAAGATCTCTGGCTTG TAGAAGACAAGTTTACATAGCACT TAAAAAACCATTTGTTACATTAAAT GTCGAACTCAAACTTTTAAAGAGT ATAGAGAACTACAAAATGGAAAAA GGAAGCAGATATACGCTTTATGAG GAAATTGTGTTAATGATCTCTCCT CTAAAAAAGGACTCTTCCCTATTAT CATAATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACATTA TGCCGAAGCTT (SEQ ID NO: 306)
CTP150C	Canis familiaris mitochondrion	CFU96639	AGGATCCTCATCAATAAATAGATA CATACAAGAATAGCCAGACTACAT CAACAAAGTGTCAATATCATGCAG CGGCTTCAAATCCGAAGTGGTGG TTTGATGTGAAGTGGTAGTATAGC TGTCGGAGGAAGCACACGATGAG GAATGTAGAGCCAATAATTACGTG TAATCCGTGAAATCCAGTGGCTAT AAAAAAGGTAGATCCGTATACCCC ATCGGAGATTGTAAAAGATGTCTC ATAGTATGCCGAAGCTT (SEQ ID NO: 307)
CTP154A	No significant match		AGCATATGTAAGATCTCTGGCTTG TAGAAGACAAGTTTATATAGCACT TAAAAAACCATTTGTTACATTAAAT GTCGAACTCAAACTTTTAAAGAGT ATAGAGAACTACAAAATGGAAAAA GGAAGCAGATATACGCTTTATGAG GAAATTGTGTTAATGATCTCTCCT CTAAAAAAAGGACTCTTCCCTATTAT CATAATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACATTA TGCCGAAGCTT (SEQ ID NO: 308)
CTP156J	Human DNA sequence from clone RP5-975D15 on chromosome 1p31.3-32.2	AL136120	AAGCTTCGGGTAACCACTGCTAAT AACTAAAATACTCTAACTTGGAATA ATCGACTCCGACGTCTTTATTTTTC CAAGTTGCCTTTTCTTTAAAACACC TTTTTCTGATTTAATACGGAATAAC GGTCTTCTTTTCCACTCGATAACT ATGGTGTCCTCTTGGGTTACTGCT TAAGAAAAGTTGGTTTGGGCCATT TCG (SEQ ID NO: 309)

CTP161B	Canis familiaris TCTA gene, AMT gene, DAG1 gene and BSN gene	. AJ012166	AAGCTTTTTTTTTTTGAAGATACAA GTTAGAGTTCAATCAGTACCAAAG GTAAGGAAAAATTAACTCTATGTA CACAGTCGAGTTTTATCCTGCTTA AAATTGTCAAGTAGAGAAAATTCT GAAAATATTTATGAAAAAGCTATTC TCATGCTGGCAGCAATGGTTAAAA TAAAGATATTTCCTTTATTAAAAAA GAAAAAGCCTAAAAAACAACTTTA AATAATCAAGTTGCTGTGAAGTGA AAGGGTTTGAAAGTGATGAAACTG AAGTTAAAAGTTCTCTATATGTGTG TTTTACTTTAAGCAAATTTCAGAC AAATTATTTGCTTTTTTTTTT
CTP164A	No significant match		AAGCTTCGGCATACGGTGTGAGG TTACAGTCCAGTTTTGTGTGCTTTA CTACACGGTTTGGTTACAGGACTT CTGTGCATTGTAAAACATAAACAG CATGGAAAAGGTTAAATACCTGTG TGCAGATTGTAAGATCTGGTCCGG ACTTGCTGTGTATATTGTAACGTTA AGTGAAAAAGAACCCCCCTTTGTA TCATAGTCATGCGGTCTTATGTAT GATAAACAGTTGAATAATTTGTCCT CAGACTCTTTACTATGCTTTTTAA AATTAAGAAAAATGTAAATATAGTA AAAATCTTCCTATGCAATTAACCTG G (SEQ ID NO: 311)

CTP178B	Homo sapiens mRNA for KIAA1524 protein	AB040957	AATAAGGCTTCATCTAGATTTTTT CTGTGAACTGAAGTTGGTCAAGGA TTGTAGGCAGCAGAAGGCTCACA AAACGGTCAGTTGAGGAACAGTTA GCAGTATCTGCAACATCCTCAAAT ATTTCCTTGAACAACTCTAAGGCT AGAAGAGAACAGTTTTCTGATCTG TCCAGAGGTTGGTTTGACCAACGC AGTAGAGCCACAGTAGGTTCTAAA CATTTAGAACGGCTTCCCAGAATG GTGTTGCCAGATGGAGCACGTTCA AATATCATCTGAGTGAGCACGTGG CGCAGCTGAGTCACTGAACAGAA GGCAAGAAGTAATTCTAAAACCTT TGAAGAAGAATCAGGATCCTTTCC ATTGAGAAGACCTAATACTTGACT AAGACATGAAGAAAAGTGCTCATA CCTGGTAAGCTT (SEQ ID NO: 312)
CTP179K	No significant match		AAGCTTACCAGGTAGAGGGACTG TTGGAGGTATGGACGCACACAGG AGGGCCAGGCCA
CTP185C	No significant match		CAGCGAAGAGGCATTAAAGATTCA TGCCATAAGTTTATTTACAAACATG TTGTGTATGTTGAATTCAAGAGATT GATCCATTTTTCAGAGACTGCACC TCTTAAAATGTTCCTTTTCACATCT GTTTAGTGGATCAAAAGCTT (SEQ ID NO: 314)
CTP197A	No significant match		ATGGTGTGTGTGTGGGTTCAAATA GTTTATTCACCTCTGTAGTGGAAA AACAAGGAGAAATAAAATCTGCTT ACAATGGCCAAAATTTATGGAGAA GCCCTAAAGTTGCTTTCCCCAAAT CACAAATCTGATTCAAGAGAAGGA AAAAAATGATGAAAAAACATCTCAT CACACAAAACTCAGTGTGGTGTCT CTGATAGTCATCAGCCAGCAGAAG CTT (SEQ ID NO: 315)

CTP201B	Homo sapiens, exostoses (multiple) 1, clone MGC:2129	BC001174	ATCATTTCAAAAATAATCATTTAAT GTTCCATAATTAAACTGTACACGA CCTAGTCTTGGGACATAGAAGCCA GTGAGGTGAG
CTP202C	No significant match		AGAAAAAAATTGATAATTAGGTG CAGATAGAAAATATGAATTAGAAG AGGTTAATTCAAGTGATCAGCCTG AAAGTTCAGCTTCATTAGCTTTGT GGTAAATCCACCACTTCAGATAGT AACTAAAGTAAATTTTAAATTTCAT AAGAATAAAGTAATCCCTGAAAAG AATTCACTTTTTTCCCAGAAGAAG CTTATAATTAAAAAAAAAA
CTP205D	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN	XM_011187	ATTAAGAAAAAGGAAAGCAAGGAA GTAAATACGGACAGTGTCTGAGAA CAGAGACGAAGTTAACGTACATTG CATGTATTGCAGGCAAGGCA
CTP206A	Homo sapiens fatty acid desaturase 1 (FADS1)	NM_013402	CAGGCTGGTGTTATAGGTGAAGAT AGGCATCTCTTACAGATGGGGGT GGGGGCTGTTGTTACTGGTGAAG ATAGGCATCTAGCCAGAGCTGCC CAGACTCCTTCAGTGAGTAGATAA TGTCGGCGAAGGCTGAGAGCAGG GGCTTGGACTGGTACTCTATGCCA TGCTTGGCACACAGGGACTGCAC CAGGGGAGCCACTTTATGGTAATT GTGTCGAGGCATCGTAAGCTT (SEQ ID NO: 319)
CTP208B	No significant match		CTAGAGGAAGTGCTTTTATTTTA GATCAACCAAACATATTAATATAA AAACCTTTTAATATACAAACTGTAA TCACAATTGCATCCACGTAGCAGC GAGGGAATGGGGTGTTGCAGGAA GCTT (SEQ ID NO: 320)

CTP215B	No significant match		AAGCTTAGAGGCAGTAAACAGGA GCGTCCCCAAGAAAAAGAGGAAA TTCTCTTCTAAGGAGGAGCCACTT AGCAGTGGACCTGAAGAGGCTGC TGGCAACAAGAGCGGCAGCTCCA AGAAAAAGAAAAAGCTCCAGAAGC TATCCCAGGAAGATTAGAATGGAC ATTTTACCAGGTGGGGCAAACCCA CATGATTCCAAACCCACCCTTATA TCCCAATAAAAACAAATTCACAGG (SEQ ID NO: 321)
CTP216A	Canis familiaris heat-shock protein (HSP27)	U19368	AGGCAGTTGCTTTGAACTTTATTT GAGAAAAACAAAAGGTAAATGTAT CAAAAGAGCATACAGGTTAGTGTG CAGGGACGGTCAGTGATGGCTAC TGAGGTGAGG
CTP222D	No significant match		AAGCTTACCAGGTGAAGAGTGGG GTTGTCATGACCTTGGCTATGACG CCCAGCATTTCGAGGTGGCTCCC TCTATTCTTTACTTTGGGCATCATA GAAAACGTGTCTCTGGGGGATTAA TCTTAGAGAAAAATAAAGCCTTTCT GCTG(SEQ ID NO: 323)
СТР300В	Homo sapiens utrophin (homologous to dystrophin) (UTRN),	NM_007124	CCAAGGTTCACCAAGCTTTCAACA AGCACTGTTCTTCTAATAATTCCTG CCACAATATATTAATTTCTTGTAGC CTACTCCAACGTTCCTCTGTCCAA CGGCACACTGCTGTCCAGCGTTC ACCAAGCTT (SEQ ID NO: 324)
CTP304B	Homo sapiens unknown mRNA	XM_002211	AAGCTTAGCAGCACAGCACACCAA CATATACAAACACCGAGTGACTAC AGTACATGCCGAGGTAAGAAAAGT ACATTCGGGGAGACTATCACTGAC ACTCAAGCCATTTTTATTTCCAATA TGTTTTGCTTTCACCTTTCCCAGT GCCAAAAAAAAAA

	,	
СТР306В	No significant match	AAGCTTCTGCTGGTATGGAAAGCC TTCAAGGAAGAGGGTAATGAGGG GGAAGAAGTGCTGTGCCAAAGTG ACAGCATTCAGTGAGGAATAAAGA AAGGAGCTCAGTGGTAGCAGGAT GTTGAGCTTCCAAGAAAATCTGGT GGTGGTGAGAAAGTGGCTGCTGT GCACTGCAAGGAAACAGAGCGAT TAAAGAAAGAGAGTGACAGGGTA GGTGGAAGAGATAGCCAGAAGTT AGAAATGGGTTACACTGAAGAAGT AAATTATTTGATTAAACAATAAGTA AATATACTGGGGATAACAAAAGCC TGATTTCTCCACTGTCTCAGAAGG GATTTGCAAGTATGG (SEQ ID NO: 326)
СТР308КК	No significant match	AAGCTTTCTCTGGATGAACAGTTA AATGGAACCTGGAAACCTCTTCCT GGGATTATTCCTTAAGCAAGGCAG TGTCAAAGGCAACCCTCCCAGCAA GACTTCAGAAAACAGCTGGCAGAA CTACAGGATCTGGTGTCTGGTGTG TAAAATACTCTCCTCCTGTTCAAA TGATTCAGAACATGTGCAAAGTGT GCTAGCTTTCATCACATATACATAA CAGCATTATGTATCAAGTTACCCT GTTCAAACAAGGAGCAGGCTTCCT CTTTTTGACTTAAATGACATGAAGT GAGAAAAAAAATGAGAATAACCNT CNNGGGAATTATAGAGGGTTATAA TTCTATCCCNACTATTTCAATAAAA GCCATCACGGG (SEQ ID NO: 327)
CTP309A	No significant match	AAGCTTTCTCTGGCTTTCCGAAGG TAAAACTGTTGCCGAAGTTGCTGC GTTACAAGAGCGTATCCCAGAAAC CATAAGGCTACAACGCCGAAATTG GGAGCTACATCAGTTTGAATCGAT TCAAGAAGGTCATCGCTCAGGCC GTCCCAATACACTGACCTCAAACT ATCAGGCTCAAATCTTAGAGTGGG TCAACACAAGCCCACTCAATGCAG AACAAATCCGAGTCAAACTGCATG AAAAACACGGTGTGTCCGTGTCTG TTGAAACTCTTCGCAAGTTTTTGC GAGATTCAGGCATGGATGTCAAAC GCACCCGCCACAGCTTG (SEQ ID NO: 328)

Please substitute Table 8 with Table 8 amended as follows:

	Table 8		
Band #	Genbank Gene Name	Accession	Sequence
CTP1D	No significant match		GACTGAGACCATTTATTCNAG ACACGCAGCTGACCAAGGAG TGAGGGAGGGACCAGGTGTG CAAGCTAATAAATAGAGGAGG GGGAGACTTCCTGGAGCTGT AGCCATTCAGTCTTCATTCTT CTCAGGCATGAAGGCATCTCT TTTCTGACCAAAGCTT (SEQ ID NO: 329)
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATA TTAGTTTGCATTTTAGTGACA GGTGTAAGAGAAAGGCCCCT TCTTCCCTTACTGGGACAAAT CTAGAAATCTTACACAGATGT GCAAATAAAGCTCGCGTGGT GTTC (SEQ ID NO: 330)
СТР4В	No significant match		GAGCAGCAGTGAGCAAAACC CACGAAGTTGTTTTAAGGTTA CAGCTATGAATAAACATTGTC CAAACAATGAAGATTTAGGGC TGAAGAACGAGCGTATGTCTA CAGTCGAAGCTT (SEQ ID NO: 331)
СТР7В	No significant match		CAGGTGCAAGAGGTTTGTTTG GGAGGTAATCCTAGAAACCAC AGAAGGGGGTGGGGATAGGA GGGATGGCAGGAAAACCAGT AAGAACTGTGTTATTGAGAAG GTTATCACTGTGGACAACTGG CACAGAATACACTTCAGAGCT GTCGCCCTGAGGGACAATGA CGCCAAGGTCTTTTTCTCTAA GTCCTGTTTCTTATAGGCCGA GGGTGGCTCCTGGGAGCAGT AACTGCCAACAGTCGAAGCTT (SEQ ID NO: 332)

CTP8A	No significant match	AAGCTTGATTGCCCATACCTG AGCCATTGATATATTTGAAAAT TATGGCACAAATGGAAGAGAA CCACATTTGAAAAGCTTCCAG CCTTTCAACAGAAGATAACTC TTCTTGTTTTGCAGATTGAGC AGATAATTTCTTTTGAAGGTG ATAGTTTCCTAAATTGGATAAA ACCGTGGCTGCCATTATATTC ACAGAAAATAAAAT
CTP17G	No significant match	CATATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAG AGACATTCAACAGTAGTTAGA ATGGCCATCTCCCAACATTTT AAAAAAACTGCACCCCCCAAT GGGTGAACAAAGTAAAGAGTA GTAACCTAGAGTTCAGCTGAG TAAGCCACTGTGGAGCCTTAA GTGGTGAGGTCTTCCAATTTC AGAGTGATGTGTCTTCAACTT GTATCATCATTTTAGCGGTAA AAGCTT (SEQ ID NO: 334)
CTP18B	No significant match	CCAAAGAAGTGTTTATTAACA TTTGGGGCCTCAGCGGGCC AGAGAGGAAGTGGGTGCTAG AGGCTCCTGAGGCTCAGGGC AAGGCCTGCAAGACAGATCC CATTGCTCAGGAGGCAGCCC AGATTGCAAATGGAAGACAG G (SEQ ID NO: 335)
CTP25D	No significant match	AAGCTTGCACCATATATATAA CTCTTGGGCAGAGGGTCTGG CATACATAAGTAGATACTCAG AAATATCTGTTGGATTGTGTT GATTTAATTATTTTTGTGTTGC TTCTTTTAAAGATGAGCACTTT CTATTAGATATTTTTTTTGATCA AAAAAAAGATATTTTTTTTGATC ATACAGATTTAAGCAGGATTT TTATTAATTCGTTTCTCTTCCT GGTTGG (SEQ ID NO: 336)
CTP31A	No significant match	GGGGCAGATAAAAACACTTAA TGTAAAATTTACCCTCTCAGA AAAATTTCCAGTATGCTATAC GGTATCACTAACTATAGTCAC TATAGTATACAGTAGATCCCT AGGATTTATTCATGATGTACA GTCGAAGCTT (SEQ ID NO: 337)

CTP36A	No significant match	CAAGTTTTACCATTGTTTTAAT TATTGAAACAAAATTAACGTAA GTAGAATCATGTGCAACAGTG TCTCTAACATATGGAAGAGGT AAATATGAATTTTATACAATAA GGTATATTATCCACTGTAACA AATTTCCAATAATTTGGCATTT ATCTTTCACAAAATGTCTCCC AAATTCTAAGCAAAGTATGCA AATTGGAGATTAACTCTAAAC AGGCATAATTATCTTCTTATCC AGTTTTTCTGAAGAGACTGAA GAGTTCAGGTCTGACCAAAG CTT (SEQ ID NO: 338)
CTP47G	No significant match	AAGCTTGCACCATACTCCTCC TCTACATATGCTCCCAAATTA CCTTCTAAAAAGGCTGTATTA ATTTACTTTCACCAGTAGTATT ATGAGAGTGCCCATGTCCCTT AGCCTTTTAAAATTCACTATGA GCAATCTTTAAAATCATGTACTA AATCTTATAGGCAAAGAATAG GGCCTTGCCCCTGCCCCTGT T (SEQ ID NO: 339)
CTP50A	No significant match	ATTCCTTTTCCAAGGACCTCT CTTCTATGTGATCACTGAGTA AGTTCAGTCACTCCCATCATC TCTAGATTGGAGATTTCCAAA TTTATGGCCTTTCCTAACTTTG AAGTCCTTATTTCTAACTGCC TACTAAGCTT (SEQ ID NO: 340)
CTP52B	No significant match	AAGCTTAGTAGGCAATAATAG AGAAGTAGAAATTGAATGTGG AACATTAACCATTAAAAATCAT ACTTTTGAATGTGCTGAGGTC ATGAATTGTTTTTACCTTCTTT GTAATTTGTGTTTTTCAGATTT TCTGTAGTTAGCATATATTCTA TAATCAGAAAAAGATGCTTCA AGTTTTTTGCAGATTTCACAG AATTTTGTTT (SEQ ID NO: 341)

CTP53A	No significant match	AAACAAAATTCTGTGAAATCT GCAAAAAACTTGAAGCATCTT TTTCTGATTATAGAATATCTGC TAACTACAGAAAATCTGAAAA ACACAAATTACAAAGAAGATA AAAACAATTCATGACCTCAGC ACATTCAAAAGTATGATTTTA ATGGTTAATGTTCCACATTCA ATTTCTACTTCTCTATTATTGC CTACTAAGCTT (SEQ ID NO: 342)
CTP58A	No significant match	AATTGTCACGAACAGGGCTGA CTGACACTGCAGTGTGTCCTT GTTTGTTGATCCCTGATCTAG GCCTCGGCTTTTCAAACTGCA GTTGATCAAACTGGGATATGC TTCGGCTGAATCTGCTCTCTG GTGCTTCTCTTTAATCGTTTTC TCCTTAAATGGGTTACTTTCTT ACTAGGAAAAAAAAAA
CTP62A	No significant match	AAGCTTCGACTGTCGCATCAA TGAATGTTTTAAGTAATAACTT TGCTGGTTATCAGCTTGATGG TGCATTAATTTTATGGCTCATT TCCTTTATTTTGACCATTGTCG GATTCTTCATTTTATATTGGAC GATCCCCAATCGAACGGTAC CAATTTTTTCAGCTGTGATTG CGGCATGTTTCAACGCGACC GTTTTTGAAATTTTAAAACATT TATTTGGCTGGGTCATGAGTA ATTTCACCAGCTATGAAATCG TTTATGGTGCTTTTGCAGCAG TTCCTATTTTTCTACTTTGGAT CTATCTGTCTTGGAATACATT TTATTGGGTGTAGAAGTGAGT TATTGGCTCTCCAT TCTGGT (SEQ ID NO: 344)

	*	
CTP63A	No significant match	AGAATCAAGCCACCAGGTGTT TATTTTTGCACTATAAATAGAG TTCCCTAGTCCCATTTTGTTA CATAATATATGAGATAACAGA GAACCTAAAATTCATTTGGTG AAAATCAAGTGTGTAGTATAC CTAAATACCAATGAGCTAGTA AGACTTGTAAGGCACTGAAGC TAAGGCTAACAGCAACAGAGT CCTTTATGAAAATAATTTCAGA ACCACAACGCATTCTCTGATG GTGCATTCCCCTGGGACAGT CGAAGCTT (SEQ ID NO: 345)
CTP64B	No significant match	CATCGCAGACATTTATTTTAG TTTTGTTAATTTCAAATATTCA TTAACCTCTTGTATCAGATTTA AGGCAGAGAAAAGATACACG CCCCTGGTTAACTGAACCGG GGTTTAGATAGTGTAGTCCAC CCTGGGTTCCACCAGGGAGA CCTCACCCGAGATGACAGGT CCGGTTGCTGGTGCACAGTC GAAGCTT (SEQ ID NO: 346)
CTP70A	No significant match	AAGCTTAGTAGGCACGCAATA AATAGGAGAATGAATCAGAGT CCTCCAACGCGTCCTCCCTAA TGTCCCTTTGAGCTGCCTCCT CTTCCACTCTGCCTCAGCTTG TCCATGTCACTTCGCTCCAGA GCAGCCGCAAGAGCATCTTA ACACCTTGTGGCCTGAACTCT CTCCCATCCTCCACTGTACAG TGATATGACTGAAACCTCATT TAACCTTTTAGAACTACCAGG AGGAGGTTCCCAAGGATCCC AGG (SEQ ID NO: 347)
CTP72B	No significant match	CCATTTTTGCTCTTAAAGAGC ATCTTAAGTGAGAGATCATGA CAATCTTTGGCCACTCCAGGT TTTCTCATCTACTACATGATCT GTTCCCAACAATAAGCCATTG AAATTAAAGGTCTCCAGAAGT TTTATCTGGGGTCTGTGATTG AAAAGAAGGAAAATGAGATGA GAGACTGCCTACTAAGCTT (SEQ ID NO: 348)

СТР73В	No significant match	CCCATAAGAAACATCTTTAAA ACATTCAGAATACTCAGGATA ATCAAGGCTAATATTCCTATA AATTCCTTACGTGTATTATGTA CATTCAGAAAAGTGTAAATTA CTCAAATATTATACTCAAAACC CCTTATAGTCTGCTAACTTGC ATGTAGAAACATCTGAAGTAA CATGCTGCCTACTAAGCTT (SEQ ID NO: 349)
CTP74A	No significant match	AAGCTTAGTAGGCATCAATTG GATCCTTTCCTATGTTGAAAT GGAAGAATTAATGAGCTTACA TTAATTAGTATTGTAATGTGTA AAGGAAGCCCAGCAAAATTTT TTGAAAACTTGATGATCCCAA CGTATTTACCATTGTATGTTAA AGCAAAATAAATCACCATTTTT TTA (SEQ ID NO: 350)
CTP75C	No significant match	AAGCTTCTCAACGGCCTCCAC CTCCTTTCTGCCCTCACAGCC TCCTGGCTCTGGCCCAAAAA GTGATTCATTTGTAAATTATCA TGGTTTTCTGCATTAAAATGG CCATTTCTGG (SEQ ID NO: 351)
СТР76В	No significant match	AAGCTTTTACCGCCATCTTGG CTCCTGTGGAGGCCTGCTGG GACCAGGACTCCTAAAGCGA CGANTTTTNTGGAAGGCTTT GGTCCAAGGCCATTTTTGCCG GCTATAAACGGGGTCTCCGG AACCAAAGGGAGCACACAGC TCTTCTTAAAATTGAAGGTGTT TACGCCCGAGATGAAACAGA ATTCTATTTGGGCAAGAGATG CGCTTATGTATATAAAGCAAA AGAACAACACAGTCACTCCTG GCGGCAAACCAAAC

CTP77D	No significant match	CAATTGGTTTAGTTTTATTTCA AAATTGTACAAAATGGCCATA AGCGGCTATAAAAAATTTCGT TTTCGGAACACGTGGAAATTC AGAAAGAACAACAAAGCAGGT TATCATTTCACAGTGTAATGG AAAAGCTCTCTCTGAGGCAG GAATCACAACTCTTCCTTCTT CTTCCCCAGTCTCTCGTGGTC TCCTTCCCGGAGCGCTCGAA TGAAACTGGTAAACCCCGATT CCGTCCGATCGC (SEQ ID NO: 353)
СТР79В	No significant match	CATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAG AGACATTCAACAGTAGTTAGA ATGGCCATCTCCCAACATTTT AAAAAAACTGCACCCCCCAAT GGGTGAACAAAGTAAAGAGTA GTAACCTAGAGTTCAGCTGAG TAAGCCACTGTGGAGCCTTAA GTGGTGAGGTCTTCCAATTTC AGAGTGATGTTCTTCAACTT GTATCATCATTTTAGCGGTAA AAGCTT (SEQ ID NO: 354)
CTP81A	No significant match	CCAAAGAAGTGTTTATTAACA TTTGGGGCCTCAGCGGGGCC AGAGAGGAAGTGGGTGCTAG AGGCTCCTGAGGCTCAGGGC AAGGCCTGCAAGACAGATCC CATTGCTCAGGAGGCAGCCC AGATTGCAAATGGAAGACAG GCCATGGTAGCGGTAAAAGC TT (SEQ ID NO: 355)
CTP92A	No significant match	GCACTAAATTCAAACCAATGA CCTCCCATGTTCTAATTCTGA TTGTTTAATCCAACTGGGAGG GTAAACGGGAGACTCTTTGG CCTGTCAGTGACAAAATGGTT TGTAAAAAAGAAAAAAATAAATA CGATATACAAGTAAGTATAAC TAGCACTCAAGCTT (SEQ ID NO: 356)

CTP99A	No significant match	AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTATAT AGCACTTAAAAAACCATTTGT TACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGAA CTACAAAATGGAAAAAGGAAG CAGATATACGCTTTATGAGGA AATTGTGTTAATGATCTCTCCT CTAAAAAAGGACTCTTCCCTA TTATCATAATGACCACACTGC CCGTCCTTAAAACCACTGGTC GCTGACATTATGCCGAAGCTT (SEQ ID NO: 357)
CTP103JJ	No significant match	AAGCTTCGGCATAGTTACTGT TTGATTTTAAGTTTTATATAG TTCTTAGTTTTGAAGAAATCCT TCAAGAACAGTTTCTCTAAAG AGCATGTTTTAATTAAATGCTA ATTAATTACCTTTCTTAGTTTT CCAATTTAGTAGGCCACTTTC AATGTCTATTAAAGTGAAATAA ACCTTCTGAACTTAAACATTTT TAAATCGATTAAAAAATTGTGTC AAAAT (SEQ ID NO: 358)
CTP104I	No significant match	AAGCTTTTTTTTTCAAAACG GATTTGTAAAAACTGTATTTCT TACACTGTGCACAAACCTTTT ATACTAAATAAATATCAAACTA CATTCTTCAGAAAGATGTTTC TAGTATTTTTCTTAGGTCACTT CCATATGTAGTATGTACAGTG AGACCACTTTTAAAAAAGCAA TGACTTAGGCAAACCAACCCT AATGGTTTGTTAGACCATTC CCTGTTTTTAATTAAAAATCAT AGGGTTGTGCTTCTGTATAAA GTTTGTACATTTCACAATGTAA AATACTGACATT (SEQ ID NO: 359)

CTP109P	No significant match	ATGCAACCACACGGAATTTAT TGAACATTTTCACAAGTGATTT CATTAAAGGAAGGCTTTTTCG TGCCTATATTGGTTACCATCA CTTTTGCCCCTATCACAATCT CATGGTGTAGTCCTTGCATGT AGCAGGAACTCAACAAATGTC TGCTAAATTGACAGATGGAGC CCCAGACGACCTAAAACTTGC ACTTTAGAAGCACTTACTTCA TCCTGAGCTATTATGAATAAG GAACTCAAGTGACTGTTAAAA GCATTCTACTGATGAGTTGGT AATGTTCTAAAGCAACATATC TCAAAGGAAAGG
CTP110A	No significant match	ATGTGACAATATGCCGAAGCT T (SEQ ID NO: 360) AACATATAAAAAACATTTATTCA CTAGGAATAATTGTGGCAGAC ACAATCCAGTGAAAGCAGCTC AATCCTGCTCAGTTAGGCTAG TTGAAGAACCATACTTTAAAA AAAGAAAGGAAGACAGCAA ACAAGTGTTTTACAGGAGCAA ACAAGTGTTTTACAGGAGCAA CAGACTTCAAGGTCACCCCCA CAAGACACCCTGCACAGCAG GGACGGGGACAGGGAGGAT GACCTCTTAGGGCCTGTGCC TTCGCAGAAGGTGCTCGGCGG ATGGGTGTGGTCTTCTTGGGT GTCTCCTCTTCTGTCATCTAT GCCGAAGCTT (SEQ ID NO: 361)
CTP111A	No significant match	AAGCTTCGGCATAAACGATCC ATTCTCCTCGGCCTCCCAAAG TGCTAAGGTTCCAGGCGTGA ACCACCATGCCCAGCCTGTTC TTTTTTTTATCTCTAGGTGGTG CTCTCCAGCTGTAGTAGAAAT AGCATTTGTATTGGATCTATTT TTTTAAATAGGGACTAAATAC AGACCATTTTGTTAGAGTGAA ATGCCAAACAAGAACGAGATT TTTCTCTTGGCT (SEQ ID NO: 362)

CTP116A	No significant match	AAAAGAGCATACTTATCAGTT GAATGGGGATAGAGGTTTTAG ATATTTTCCAAAATATTTATAA AACACTTCATTGTTGAGAAAT CACTTACAGAATGGTGGCTAT CAAACAAATAATTATAAATTTT TAAAGCACAAGTCACATGTTT TGTAACTCCTGTGTGAATTTA TTTTAGCTGTGACATTTAATTG AAAACATCAGATATGTTTTGG AAAAGTCTTAATTTGAGAACA ACTGAAGGAAGTTAATCCAGA ATCTATATGTAGTTAGCTATTA ATGATGATGCTTTATTGACAG TATATTGCTAATATTTCTTC ATGAAATCTGAAGTTAAATAG TTTCGTTGTGGAATAGTGTCA CTGTAACATTTCCCTTACGAA GTTCAATAAAACCAGCTTTGCC ATAAAAAAAAAA
CTP124B	No significant match	NO: 363) ATGGCAAAGCTGGTTTATTGA ACTTCGTAAGGGAAATGTTAC AGTGACACTATTCCACAACGA AATTATTTAACTTCAGATTTCA TGAAGAAATATATTAGCAATAT ACTGTCAATAAAGCATCATCA TTAATAGCTAACTACATATAGA TTCTGGATTAACTTCCTTCAG TTGTTCTCAAATTAAGACTTTT CCAAAACATATCTGATGTTTT CAATTAAATGTCACAGGAGTTAC AAAACATGTGACTTGTGCTTT AAAAACATGTGACTTGTGTTT GATAGCCACCATTCTGTAAGT GATTTCTCAACAATGAAGTGT TTTATAAATATTTTGGAAAATA TCTAAAACCTCTATCCCCATT CAACTGATAAGTATGCTCTTT TAAAAAAAAAA

CTP126A	No significant match	AAAGAAAGTAATTATGGAACT AGATTTTTAACATTGTAAAATA CTAAATGATCCTTCAGTTGTA AGTTGATATATATTTGTAACCT TTGTGAAATTGTATCCTTATGA AAATACCACTTTTGTGGAAGA GAGAATCCAACTATGTAATAT TTAATTAAAACAATCCATGTTT ACCCTATCCCTGCTCAATTAA ACAGTGTATATAGGTCTAATA ATAGCTCTGGAGCAACTTTTA TCATGAGTCAAATATATAAAC ACATTGATGTCTTCTTGGTAT ATCTGAAAACAAGAGGTAGAA GTCCTGTTGAGAGTCTTTAAA ATAAACTATTTTTACAAATGTA AAAAAAAAAA
CTP133B	No significant match	CCAAAAGAGCCATGCCCAG AGGGAAAGTTGGAAACGAAA GCCAAGTTTTCATTTAAAAGG AAACANTAAAGAGGTTAGCCA GAGAAACTTGAACCAAAGAAA AGACAGCACGCTGTTCAGAAT GGTCAATAAGAGCCTAAAACG GTACCCTCGGAATGAAGCTT (SEQ ID NO: 366)
CTP134A	No significant match	CCAAAAAGAGCCATGCCCAG AGGGAAAGTTGGAAACGAAA GCCAAGTTTTCATTTAAAAGG AAACATTAAAGAGGTTAGCCA GAGAAACTTGAACCAAAGAAA AGACAGCACGCTGTTCAGAAT GGTCAATAAGAGCCTAAAACG GTACCCTCGGAATGAAGCTT (SEQ ID NO: 367)
CTP143B	No significant match	AAGATTTCAAAGAGTGAGCAA GTGCATTAGCAGGGCAGAGA GAGAGGCAGCAGCAGACTCC CTGCTGAGCTGGGAGCCAAC TTGGGACTCGATGCCGGGAC CCCAGGATCATTACCCGAAG CTT (SEQ ID NO: 368)

CTP144B	No significant match	GGGTAAATCCGTCCAGTTTAC TGTAAATATGCCTTTGACAAA CTGGTAACTCATGTCCCATCC CAGTCCCGAGTACTGGACCA GGGAAACTCCAGCCACAGTT GAGGGAAGGCCACCTGTTGG CTCTGGGGCAGCAGGTCATC CAGTGGGCTTCAGGAGTCAC CAGGCCTCTGACCAGTTCCTC CCCACCAAGCAGTTTCAGAGT TGTCCGCCAAGTCTATTTCAC ACCTCTCGTGTATGCCGAAGC TT (SEQ ID NO: 369)
CTP145B	No significant match	GGACTGATAATAATAGGATTT TATTTCTAAAATTTATCTTAGA GCTTTCAAAGAGTATAACACA CAGATCTTTACCACCACACCC CCCTTGCCTATACAGGAAACA ACCAAGTTGTGAGAACATTTA TCATGCACAGACACATCAGG GCTTGCAGGTGCTACACAGG AATCACAAATGCTGTTCCACA TCATGTCTTCTGTTATGCCGA AGCTT (SEQ ID NO: 370)
CTP149B	No significant match	AGGAAGAATAAAACATATAA AAACATTTATTCACTAGGAATA ATTGTGGCAGACACAATCCAG TGAAAGCAGCTCAATCCTGCT CAGTTAGGCTAGTTGAAGAAC CATACTTTAAAAAAAAGAAAGG AAGACAGGCAAACAAGTGTTT TACAGGAGCAACAAGACTCAA GGTCACCCCCACAAGACACC CTGCACAGCAGGGACGGGA CAGGGAGGATGACCTCTTAG GGCCTGTGCCTTCGCAGAGG TGCTCGGCGGATGGGTGTGG TCTTCTTGGGTGTCTCCTCTT CTGTCATCTATGCCGAAGCTT (SEQ ID NO: 371)

CTP150A	No significant match	AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTACAT AGCACTTAAAAAACCATTTGT TACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGAA CTACAAAATGGAAAAAGGAAG CAGATATACGCTTTATGAGGA AATTGTGTTAATGATCTCTCT CTAAAAAAGGACTCTTCCCTA TTATCATAATGACCACACTGC CCGTCCTTAAAACCACTGGTC GCTGACATTATGCCGAAGCTT (SEQ ID NO: 372)
CTP154A	No significant match	AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTATAT AGCACTTAAAAAAACCATTTGT TACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGAA CTACAAAATGGAAAAAGGAAG CAGATATACGCTTTATGAGGA AATTGTGTTAATGATCTCTCT CTAAAAAAGGACTCTTCCCTA TTATCATAATGACCACACTGC CCGTCCTTAAAACCACTGGTC GCTGACATTATGCCGAAGCTT (SEQ ID NO: 373)
CTP164A	No significant match	AAGCTTCGGCATACGGTGTG AGGTTACAGTCCAGTTTTGTG TGCTTTACTACACGGTTTGGT TACAGGACTTCTGTGCATTGT AAAACATAAACAGCATGGAAA AGGTTAAATACCTGTGTGCAG ATTGTAAGATCTGGTCCGGAC TTGCTGTGTATATTGTAACGT TAAGTGAAAAAGAACCCCCCT TTGTATCATAGTCATGCGGTC TTATGTATGATAAACAGTTGA ATAATTTGTCCTCAGACTCTTT ACTATGCTTTTTAAAATTAAG AAAAATGTAAAATATAGTAAAAA TCTTCCTATGCAATTAACCTG G (SEQ ID NO: 374)
CTP179K	No significant match	AAGCTTACCAGGTAGAGGGA CTGTTGGAGGTATGGACGCA CACAGGAGGCCAGGCC

CTP185C	No significant match	CAGCGAAGAGGCATTAAAGAT TCATGCCATAAGTTTATTTACA AACATGTTGTGTATGTTGAAT TCAAGAGATTGATCCATTTTT CAGAGACTGCACCTCTTAAAA TGTTCCTTTTCACATCTGTTTA GTGGATCAAAAGCTT (SEQ ID NO: 376)
CTP197A	No significant match	ATGGTGTGTGTGGGTTCAA ATAGTTTATTCACCTCTGTAGT GGAAAAACAAGGAGAAATAAA ATCTGCTTACAATGGCCAAAA TTTATGGAGAAGCCCTAAAGT TGCTTTCCCCAAATCACAAAT CTGATTCAAGAGAAGGAAAAA AATGATGAAAAACATCTCATC ACACAAAACTCAGTGTGGTGT CTCTGATAGTCATCAGCCAGC AGAAGCTT (SEQ ID NO: 377)
CTP202C	No significant match	AGAAAAAAATTGATAATTAG GTGCAGATAGAAAATATGAAT TAGAAGAGGTTAATTCAAGTG ATCAGCCTGAAAGTTCAGCTT CATTAGCTTTGTGGTAAATCC ACCACTTCAGATAGTAACTAA AGTAAATTTTAAATTTCATAAG AATAAAGTAATCCCTGAAAAG AATTCACTTTTTTCCCAGAAG AAGCTTATAATTAAAAAAAAAA
CTP208B	No significant match	CTAGAGGAAGTGCTTTTATT TTTAGATCAACCAAACATATTT AATATAAAAACCTTTTAATATA CAAACTGTAATCACAATTGCA TCCACGTAGCAGCGAGGAA TGGGGTGTTGCAGGAAGCTT (SEQ ID NO: 379)
CTP215B	No significant match	AAGCTTAGAGGCAGTAAACAG GAGCGTCCCCAAGAAAAAGA GGAAATTCTCTTCTAAGGAGG AGCCACTTAGCAGTGGACCT GAAGAGGCTGCTGGCAACAA GAGCGGCAGCTCCAAGAAAA AGAAAAAGCTCCAGAAGCTAT CCCAGGAAGATTAGAATGGA CATTTTACCAGGTGGGCCAAA CCCACATGATTCCAAACCCAC CCTTATATCCCAATAAAAACA AATTCACAGG (SEQ ID NO: 380)

CTP222D	No significant match	AAGCTTACCAGGTGAAGAGT GGGGTTGTCATGACCTTGGC TATGACGCCCAGCATTTCGAG GTGGCTCCCTCTATTCTTTAC TTTGGGCATCATAGAAAACGT GTCTCTGGGGGATTAATCTTA GAGAAAAATAAAGCCTTTCTG CTG (SEQ ID NO: 381)
CTP306B	No significant match	AAGCTTCTGCTGGTATGGAAA GCCTTCAAGGAAGAGGGTAA TGAGGGGGAAGAAGTGCTGT GCCAAAGTGACAGCATTCAGT GAGGAATAAAGAAAGGAGCT CAGTGGTAGCAGGATGTTGA GCTTCCAAGAAAATCTGGTGG TGGTGAGAAAGTGGCTGCTG TGCACTGCAAGGAAACAGAG CGATTAAAGAAAGAGATGTGA CAGGGTAGGTGGAAGAATAAGTAAATT ACACTGAAGAAGTAAATTATT TGATTAAACAATAAGTAAATAT ACTGGGGATAACAAAAGCCT GATTTCTCCACTGTCTCAGAA GGGATTTGCAAGTATGG (SEQ ID NO: 382)
СТР308КК	No significant match	AAGCTTTCTCTGGATGAACAG TTAAATGGAACCTGGAAACCT CTTCCTGGGATTATTCCTTAA GCAAGGCAGTGTCAAAGGCA ACCCTCCCAGCAAGACTTCAG AAAACAGCTGGCAGAACTACA GGATCTGGTGTCTGGTGTGTA AAATACTCTCCTCCCTGTTCA AATGATTCAGAACATGTGCAA AGTGTGCTAGCTTTCATCACA TATACATAACAGCATTATGTAT CAAGTTACCCTGTTCAAACAA GGAGCAGGCTTCCTCTTTTTG ACTTAAATGACATGAAGTGAG AAAAAAAATGAGAATAACCNT CNNGGGAATTATAGAGGGTTA TAATTCTATCCCNACTATTTCA ATAAAAGCCATCACGGG (SEQ ID NO: 383)

CTP309A	No significant match	AAGCTTTCTCTGGCTTTCCGA AGGTAAAACTGTTGCCGAAGT TGCTGCGTTACAAGAGCGTAT CCCAGAAACCATAAGGCTACA ACGCCGAAATTGGGAGCTAC ATCAGTTTGAATCGATTCAAG AAGGTCATCGCTCAGGCCGT CCCAATACACTGACCTCAAAC TATCAGGCTCAAATCTTAGAG TGGGTCAACACAAGCCCACT CAATGCAGAACAAATCCGAGT CAAACTGCATGAAAAAACACGG TGTGTCCGTGTCTGTTGAAAC TCTTCGCAAGTTTTTGCGAGA TTCAGGCATGGTCTTCAAACG CACCCGCCACAGCTTG (SEQ ID NO: 384)
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OSBILSON OHOSOE

REMARKS

This amendment to the specification is made to replace the original sequence listing with a sequence listing that complies with the sequence rules, 37 C.F.R. §§ 1.821 - 1.825.

In the event that there are any questions concerning this amendment or the application in general, the Examiner is respectfully urged to telephone the undersigned representative so that prosecution may be expedited.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made".

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. 400742000200. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

By:

Respectfully submitted,

Dated: April 5, 2002

Terri-Shieh-Newton Registration No. 47,081

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Version with Markings to Show Changes Made

In the Specification

On page 50, the paragraph beginning [00316] has been amended as follows:

1. Combine in a microfuge tube:

1 ug total RNA/8ul DEPC treated water (Ambion #9922)

2ul (1 ug) Oligo d(T)22 -- T7 (Operon, 5'TCT AGT CGA CGG CCA GTG AAT TGT AAT ACG ACT CAC TAT AGG GCG 3') (SEQ ID NO: 385)

On page 50, the paragraph beginning [00322] has been amended as follows:

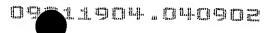
1ul Template Switching Primer (1ug/ul) (Operon, 5'-AAG CAG TGG TAT CAA CGC AGA GTA CGC GGG-3') (SEQ ID NO: 386)

Please substitute **TABLE 1** with **TABLE 1** amended as follows:

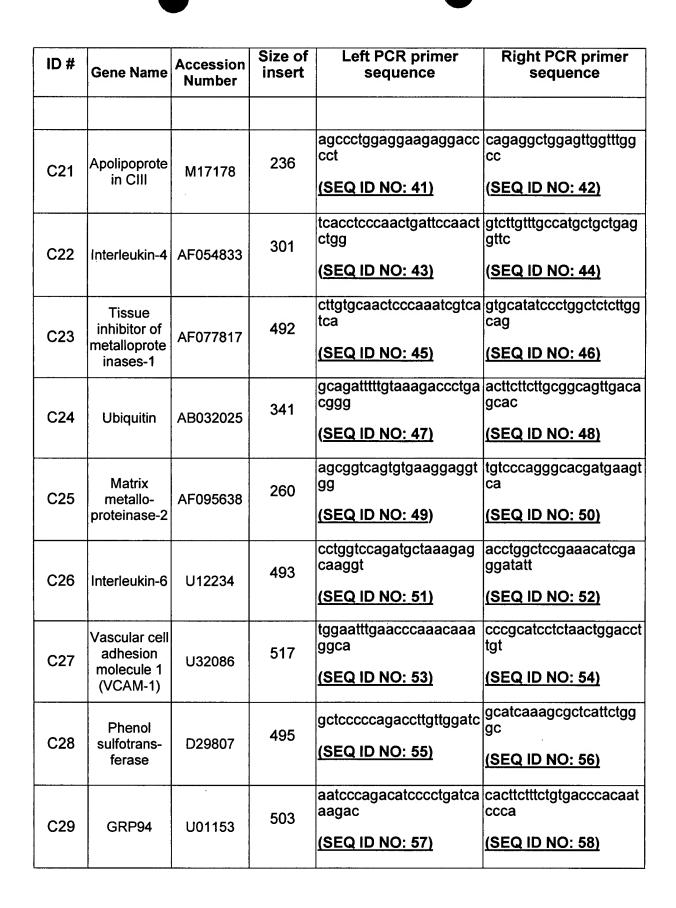
TABLE 1

ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
				caagaggacgaagaagaaa ttgatgtt	cgcttccgcaacaagtccttt
C1	c-myc	X95367	503	(SEQ ID NO: 1)	(SEQ ID NO: 2)
C2	c-erb B-2	AB008451	507	gtgtttgatggtgacttgggaat g (SEQ ID NO: 3)	gtactccgggttctctgctgtag g <u>(SEQ ID NO: 4)</u>

ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
С3	Catalase	AB012918	506	gacaaaatgcttcagggtcgtc tt (SEQ ID NO: 5)	ccatgctgcataaaggtgtga atc (SEQ ID NO: 6)
C4	p53	AF060514	506	acttttcgacacagtgtggtggt g (SEQ ID NO: 7)	cgagaggtagattgccccttct tt (SEQ ID NO: 8)
C5	Metallo- thionein 2	AB028042	330	gactccagccgcccttct (SEQ ID NO: 9)	aggaatgtagtagcaaacgg gtca (SEQ ID NO: 10)
C6	Interleukin-2	U28141	490	tcacagtaacctcaactcctgc ca (SEQ ID NO: 11)	gtcagtgttgagaagatgcttt gaca (SEQ ID NO: 12)
C7	Metallo- thionein 1	D84397	376	gctctgactctccctgtggtctg (SEQ ID NO: 13)	caaacgggaatgtagaaaa caagtca (SEQ ID NO: 14)
C8	Intercellular adhesion molecule-1	L31625	507	caagtcagagctggaatttcccat (SEQ ID NO: 15)	tggaaagaactcccaactgg acat (SEQ ID NO: 16)
С9	Multidrug resistant protein-1	AF045016	510	ggcaaagagataaagcacct gaatg (SEQ ID NO: 17)	atagatgcctttctgagccagc ag (SEQ ID NO: 18)
C10	Beta-actin	AF021873	509	aagtattctgtgtggatcggag gc (SEQ ID NO: 19)	caacttcaaggcaattaacca ccc (SEQ ID NO: 20)
C11	Tumor necrosis factor-alpha	S74068	510	caaattgcctccaactaatcag cc (SEQ ID NO: 21)	acagggcaatgatcccaaag taga (SEQ ID NO: 22)

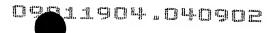


ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C12	Nitric oxide synthase-1, inducible	AF077821	510	gtccttgcatcctcattggacct (SEQ ID NO: 23)	gctgttttgctgcaccatcttttt (SEQ ID NO: 24)
C13	BRCA-1	U50709	499	tttctgggtattgcaggaggaa aa (SEQ ID NO: 25)	agtctgcagcagttctgggaat ct (SEQ ID NO: 26)
C14	Metallo- thionein-IV	AB028041	385	ctgtgacagcattggagcttctt g (SEQ ID NO: 27)	tttacatgagtgtcaccaccac ca (SEQ ID NO: 28)
C15	Tumor necrosis factor receptor	AF013955	507	ggctctgttgttggaaatatacc cc (SEQ ID NO: 29)	cagttcacacaagagacgca ttca (SEQ ID NO: 30)
C16	c-kit	AF099030	504	gagacttggctgctagaaatat cetcc (SEQ ID NO: 31)	aattgatccgcacggaatggt (SEQ ID NO:32)
C17	CD40 ligand	AF086711	508	ccaatttgaagcctttctcaagg a (SEQ ID NO: 33)	gagtaagccaaaagacgtg aagcc (SEQ ID NO: 34)
C18	Cubilin	AF137068	508	tgaatgcacacatgacttcttgg a (SEQ ID NO: 35)	tgatggatacactgcatactct gcg (SEQ ID NO: 36)
C19	Alkaline phospha- tase	AF149417	499	cagatgtggagtatgagatgg acga (SEQ ID NO: 37)	agaccaaagatagagttgcc ccg (SEQ ID NO: 38)
C20	Pancreatic lipase	M35302	490	actcagagagcatcctcaacc ctg (SEQ ID NO: 39)	cagaagctgtgcactgttttctc ct (SEQ ID NO: 40)



ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
020	E colonkin	1 22097	506	ttacacggttgctgtcactggat gaaa	cacccaggtgccccactattc atgttt
C30	E-selectin	L23087		(SEQ ID NO: 59)	(SEQ ID NO: 60)
004	gastric	V42900	501	tgcactatcatcagagcatgcc tccct	tccatcctaggaccccgagat catgac
C31	lipase	Y13899		(<u>SEQ ID NO: 61)</u>	(SEQ ID NO: 62)
			503	ggaccettteegegaetggtae c	tgatttctgccgactgggtggct
C32	HSP27	U19368		(SEQ ID NO: 63)	(SEQ ID NO: 64)
			472	cgggtccctgctggaggacttt aaga	ggtatgacggggttctccaag cagtt
C33	IL-10	U33843		(SEQ ID NO: 65)	(SEQ ID NO: 66)
			470	tccgaggggcacctctacacc gt	ttgccaacagcctcaaagaa cgg
C34	caveolin-1	U47060		(SEQ ID NO: 67)	(SEQ ID NO: 68)
			193	accatccagctcatccagaac cacttc	tggcaaatacacagagaaa gccctccc
C35	H-ras, p21	U62092		(SEQ ID NO: 69)	(SEQ ID NO: 70)
			514	agacaagaggtttcagccagt gcatga	gtgtgtggcattagtagcagc gtgctg
C36	rab2	M35521		(SEQ ID NO: 71)	(SEQ ID NO: 72)
C37	rab5	M35520	521	aagcctagtgcttcgttttgtgaa ggg (SEQ ID NO: 73)	ttggctgcgtgggttcagtaag gtcta (SEQ ID NO: 74)
		rab7 M35522	508	ccccaacacattcaaaaccct cgata	tgtgtgtgtcagggtgaagtgtt tgg
C38	rab7			(SEQ ID NO: 75)	(SEQ ID NO: 76)

ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
				ctggttctgttgcttgtcctcctgg	ggtcagtgaaaatccctgcgt
C39	APO CII	M17177	256	(SEQ ID NO: 77)	aagtgc (SEQ ID NO: 78)
C40	endothelin-2	X57038	330	ctgtccgcctctgtccccctgtt	ggagtagggacaacaccca gccg
040	CHOUNCHIT-2	707000		(SEQ ID NO: 79)	(SEQ ID NO: 80)
C41	FGFR2	AF211257	498	tgattgttcttctgccaccaaaat gcc	taaatacagaacgcacaaca cggcgac
	1 01112	711 271201		(SEQ ID NO: 81)	(SEQ ID NO: 82)
C42	leptin	AB020986	503	gccttaccctcagggaccttgc a	gcatgaacaaaacagcctcc gcc
	iopuii	71202000		(SEQ ID NO: 83)	(SEQ ID NO: 84)
C43	prosta- glandin D	AB026988	510	aggtgtccctgcagcccaactt c	gggcggcggtcacctacttgtt c
043	synthase	AD020900		(SEQ ID NO: 85)	(SEQ ID NO: 86)
C44	paraoxo- nase-2	L48515	472	caggactccacagcttttcccc agata	ggtgaaatattgatcccatttgc tgca
044	(PON2)	L40010		(SEQ ID NO: 87)	(SEQ ID NO: 88)
C45	beta- glucuroni-	AF019759	493	cgccgtatgtggacgtcatctgt gt	agacagaggcttcagagggc gaacg
043	dase	AF019759		(SEQ ID NO: 89)	(SEQ ID NO: 90)
C46	A 500000	359	ctccaggtgggcttcgaggac gt	tggggtccaagtgctcagtcgt g	
040	caveolin-2	AF039223		(SEQ ID NO: 91)	(SEQ ID NO: 92)
C47	matrix metallo-	AF032025	350	ttcttcaaaggagacaagcact gggtg	tagcctggctctaccttcagctt ctgg
047	proteinase- 14	AFU32U23		(SEQ ID NO: 93)	(SEQ ID NO: 94)



ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C48	matrix metallo- proteinase-9	AB006421	471	gattctccaagggcaagggac gc (SEQ ID NO: 95)	tcacgtagcccacttcgtccac c (SEQ ID NO: 96)
C49	IL-8	U10308	498	gtggcccacattgtgaaaactc agaaa (SEQ ID NO: 97)	gaccaaggcaaggttgaaa agggactc (SEQ ID NO: 98)
C50	keratinocyte growth factor	U80800	482	caatgacatgactccagagca aatggc (SEQ ID NO: 99)	ttgccataggaagaaagtgg gctgttt (SEQ ID NO: 100)
C51	decorin	U83141	505	gattgaaaatggagccttccag ggaat (SEQ ID NO: 101)	ataatttccaagctggatggca gagcg (SEQ ID NO: 102)
C52	glucose-6- phospha- tase	U91844	508	ctggggatctcagctgcaggat tttct (SEQ ID NO: 103)	atcettteeteteettgeeetete ete (SEQ ID NO: 104)
C53	TGFB-1	L34956	489	gaccettectgetectcatggee (SEQ ID NO: 105)	cttaaatacagcccggcgca gcg (SEQ ID NO: 106)
C54	ZAP36/ annexin IV	D38223	488	gacacgtccttcatgttccaga gggtg (SEQ ID NO: 107)	ccagatgtgtcacccttgatga aggag (SEQ ID NO: 108)
C55	N-ras	U62093	224	gttggagcaggtggtgttggga aaag (SEQ ID NO: 109)	gcaaatacacagaggaagc cttcgcc (SEQ ID NO: 110)
C56	K-ras	U62094	228		ggcaaatacacaaagaaag ccctccc (SEQ ID NO: 112)
C57	р38 МАРК	AF003597	506		tttgcaaagttcatcttcggcat ctgg

ID#	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
				(SEQ ID NO: 113)	(SEQ ID NO: 114)

Please substitute TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY, with TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY amended as follows:

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY					
ID#	Gene Name	Accession Number	Target Sequence			
C1	c-myc	X95367	caagaggacgaagaagaaattgatgttgtttctgtggaaaaaaggcagccctgccaaaaggtccgaatcggggtcccccttgctggaggccaagcaaactcctcacagcccactggtccttaagagatgccatgtgcccccatcagcacaactacgcggcaccccctccaccaggaagga			
C2	c-erb B-2	AB008451	gtgtttgatggtgacttgggaatggggggagccaaggggctgcagaggcttccctcacaggaccccagccctctccagcggtacagtgaggacccaggagccccaggaccctgagactgatggtaaggttgcccccctgaccgcagcccccagcctgaatatgtgaaccagccag			

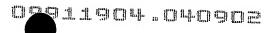
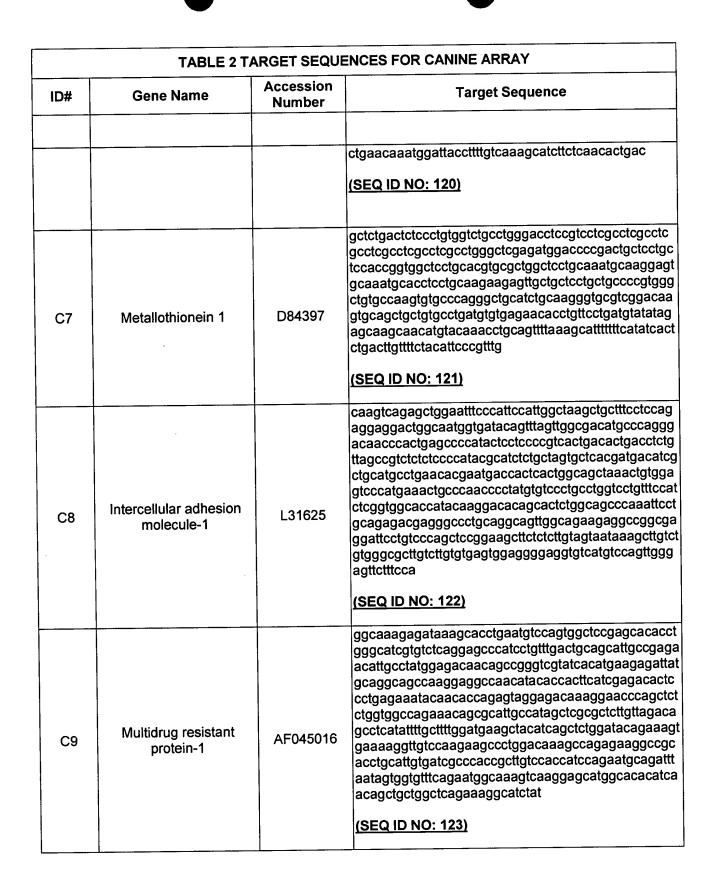


	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY					
ID#	Gene Name	Accession Number	Target Sequence			
C3	Catalase	AB012918	gacaaaatgcttcagggtcgtctttttgcctatcctgacactcaccgccaccgcctgggacccaactatcttcagatacctgtgaactgtcctttccgggctcgagtggccaactaccaacgggatggccccatgtgcatgctcgacaatcagggtggtgctccaaattactaccccaatagctttagtgctcctgaacaacagggttgtgtcctagagcatagcagccaatgttcgccagatgtgcagcgcttcaacagtgccaatgaagataatgtcactcaggtgcggaccttctatttgaaggtacttggtgaagaggaggaaacgcctgtgcgagaacattgctggccatctgaaggacgcacaacttttcatccagaagaaagcggtcaagaacttcagtgatgtccaccctgactacggggcccgcattcaggctctttttggacaaatacaatgctgagaaacctaagaacgcgattcacacctttatgcagcatgg			
			(SEQ ID NO: 117)			
C4	p53	AF060514	acttttcgacacagtgtggtggtgcttatgagccacccgaggttggctct gactataccaccatccactacaactacatgtgtaacagttcctgcatggg aggcatgaaccggcggcccatcctcactatcatcaccctggaagactc cagtggaaacgtgtgggacgcaacagctttgaggtacgcgtttgtgcc tgtcccgggaggagccgccggactgaggaggagaatttccacaaga agggggagccttgtcctgagccaccccccgggagtaccaagcgagcactgctctcccagcaccagctctctccccgcaaaagaagaagccac tagatggagaatatttcacccttcagatccgtgggcgtgaacgctatgagatgttcaggaatctgaatgaa			
C5	Metallothionein 2	AB028042	gactccagccgcccttctcgccatggatcccaactgctcctgcgcgc ggggggctcctgcacgtgcgccggctcctgcaaatgcaaagagtgca gatgcacctcctgcaagaagagctgctgctcctgctgccccgtgggctg tgccaagtgtgcccagggctgcatctgcaagggcgcatcggacaagt gcagctgctgtgcctgatgtgggggagagcctattcctgatgtaaataga gcgacgtgtacaaacctacagtttgtgggggggttttttggtgctttttgttttg ggtccaactctgacccgtttgctactacattcct			
			(SEQ ID NO: 119)			
C6	Interleukin-2	U28141	tcacagtaacctcaactcctgccacaatgtacaaaatgcaactcttgtctt gcatcgcactgacgcttgtacttgtcgcaaacagtgcacctattacttcaa gctctacaaaggaaacagagcaacagatggagcaattactgctggatt tacagttgcttttgaatggagttaataattatgagaacccccaactctcca ggatgctcacatttaagttttacacgcccaagaaggccacagaatttac acaccttcaatgtctagcagaagaactcaaaaacctggaggaagtgct aggtttacctcaaagcaaaaacgttcacttgacagacaccaaggaatt aatcagcaatatgaatgtaacacttctgaaactaaagggatctgaaacaagttacaactgtgaatatgatgacgagacagcaaccattacagaattt			



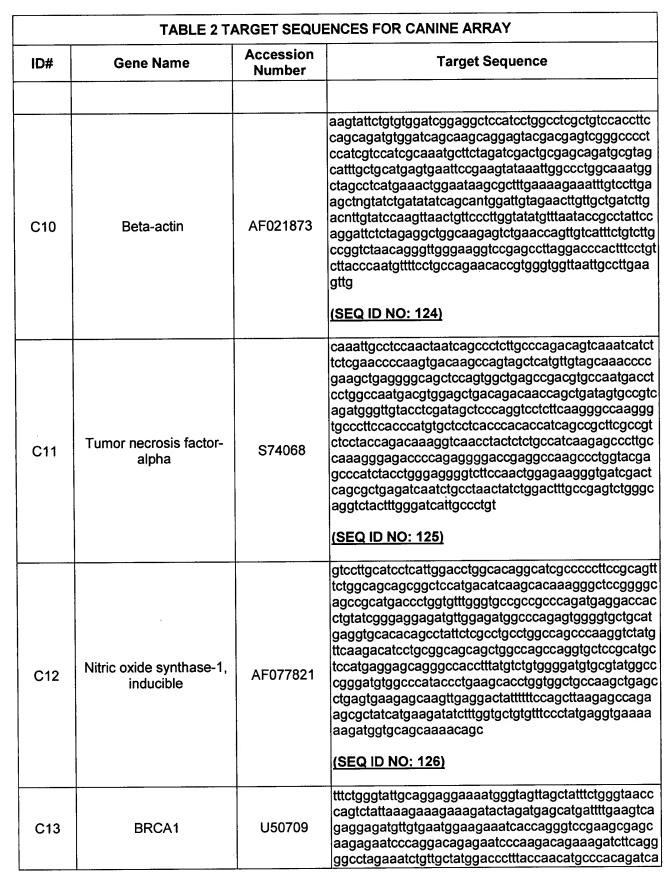


	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
			attagagtggatggtgcacctctgtggggcttctgtggtgaaggagccttcgttattcaccctcagcaagggcactcatccagtggtagtcgtgcagccggacgcctggacagaggacagtggcttccatgcgattgggcagatgtgtgaggcacctgtggtgacccgagagtgggtactggacagtgtagccctgtaccagtgccaggagctggacacctacct		
C14	Metallothionein-IV	AB028041	gctcggacaagtgcagctgctgtgcctgaaccgcatccgtggtgctggggctggcgggggggg		
C15	Tumor necrosis factor receptor	AF013955	ggctctgttgttggaaatataccccataagcgttactgcacttgttcctcacccccggaacaggtgaagaggagctattctgtgtccccagggaaaataattcacctcaagacgattccatttgctgtacgaagtgccacaaagggacctacct		
C16	c-kit	AF099030	gagacttggctgctagaaatatcctccttactcatggtcgaatcacaaagatttgtgattttggtctagccagagacatcaagaatgattctaattatgtggcaaaggaaacgctcggctacctgtgaagtggatggccctgagagcattttcaactgtgtgtacacatttgaaagtgatgtctggtcctatgggatttttcgtgggaggctcttctcttttaggaagcagccctaccctgggatgccagtcgattcaaagttctacaagatgatcaaggaagg		

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C17	CD40 ligand	AF086711	ccaatttgaagcctttctcaaggagataatgctaaacaacgaaatgaagaaaga		
C18	Cubilin	AF137068	tgaatgcacacatgacttcttggaggtaagaaatggaagtgatagcagtcaccattatttggcacatactgtggaactctgttgccagatcctatcttctccgaaacaacaaactatacctacggtttaagaccgatagcgcaacttccaatcgtgggtatgaaattgtctggacctcatcaccctctggctgtggtggaaccctttatggagacagtggttccttcaccagccccggctatcccggcaacttacccaacaacactgactg		
C19	Alkaline phosphatase	AF149417	cagatgtggagtatgagatggacgagaagtccaggggcacgaggetggatggcctgaacctcatcgacatctggaagaacttcaaaccgagacacacagagactacagagactctcactacactggaaccacgagactacctggaactacttggaaccacgggaactcctggaccatcacacagtgactacactcttgggtctctttgagccgggggacatcacgatacgagatggaaatagccatcaagattctgagcaagaaccccagaggcattcttgtgtggaaagaggaggaggatgaccacgggcatcacagaggcaaggcaaggcaggaggaggaggaggaggagg		
C20	Pancreatic lipase	M35302	actcagagagcatcctcaaccctgatggatttgcttcctacccctgtgct cctacagggcctttgaatctaacaagtgcttcccctgcccagatcaagg gtgcccacagatgggtcactatgctgataaatttgctgtcaagacaagt atgagacacagaaatacttcctgaacaccggagattccagcaattttg tcgctggagatacggggtttctataacattgtctgggaaaagagccact		

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
			gtcaggctaaagttgctttgtttggaagtaagggaaatactcatcaattca atatcttcaaggggattctcaaaccaggctctactcattccaatgagtttg atgcaaagcttgatgttggaacaattgagaaagtcaagtttctttggaata acaacgtggtaaacccaacctttcccaaagtgggtgcagccaagatca ccgtgcaaaagggagagagagaaaacagtgcacagcttctg		
	A all a salais Olli	147470	(SEQ ID NO: 134) agccetggaggaagaggacccctccctcctgggccttatgcagggttacatgcagcacgccacaagacggcccaggacacgctgaccaggttcaggagtccaggtggcgaagggccaggggctggatgaccgatagcttcagttccctgaaagactactgcagcacgtttaagggcaagttcactg		
C21	Apolipoprotein CIII	M17178	gggttctgggattcagcctctgaggccaaaccaactccagcctctg (SEQ ID NO: 135)		
C22	Interleukin-4	AF054833	tcacctcccaactgattccaactctggtctgcttactagcactcaccagca cctttgtccacggacataacttcaatattactattaaagagatcatcaaaa tgttgaacatcctcacagcgagaaacgactcgtgcatggagctgactgt caaggacgtcttcactgctccaaagaacacaagcgataaggaaatctt ctgcagagctgctactgtactg		
C23	Tissue inhibitor of metalloproteinases-1	AF077817	cttgtgcaactcccaaatcgtcatcagggccaagttcgtggggaccgcagagtcaaccagaccgacttaaaccggcgttatgagatcaagatgaccaagatgttcaagggtttcagggccttggggaatgcctcggacatccggtttcgtcgacacccccgccttggaaagcgtctgcggatacttgcacagggcccagaaccgcagcgaggagtttctggtcgccggaaacctgcgggacgcctgagtaccgctagcgcgggggttcaccagagcccgggggttcaccagagcccgggggttcaccagagcctagctgcgggggtgaacattgcagagggtgacagtgttaaccgttcatcatcacctgcagaaactgcagaggtgaagagcacttgtgggacggac		
C24	Ubiquitin	AB032025	gcagatttttgtaaagaccctgacgggcaaaactatcacccttgaggtc gagcccagtgacaccattgaaaatgtcaaagccaaaatccaagaca aggagggcatcccgcctgaccagcagcgtctgatttttgcgggcaaac agctagaagatggccgaactctgtcagactacaatatccagaaagag ccaccttgcacttggtgcttcgcctgcagggtggcatcattgagccttcac tccgccagctggcccagaaatacaactgcgacaagatgatctgccgcaagatgttatgctcgcctgcacccccgtgctgtcaactgccgcaagaagaga		

ID# Gene Name Accession Target Sequence				
D#	Gene Name	Number	14.90.004.000	
			agt (SEQ ID NO: 138)	
C25	Matrix metalloproteinase- 2	AF095638	agcggtcagtgtgaaggaggtggactctgggaatgacatctacggcaccccatcaagcggattcagtatgagatcaagcagataaagatgttcaaggaccagacaaggacatagagtttatctacacggctccttcct	
C26	Interleukin-6	U12234	cctggtccagatgctaaagagcaaggtaaagaatcaggatgaagtgcactcctgacccaaccacagacgccagcctgcaggctatcttgcagcgcaggatgagtgcgtgaagcaccaacaattcacctcatcctgcggtctggaggatttcctgcagttcagtctgagggctgttcggataatgtagctgggcatctaagattgctgtagttcatgggcattcctttctccagtcagaacctgtgcagtgggcacaaaacttatgttgttctctgtgaggaactaaagtatgagcgttaggacactattttaattatttttaatttattgatattgaagtgacttgaagtgacttattatatata	
C27	Vascular cell adhesion molecule 1 (VCAM-1)	U32086	tggaatttgaacccaaacaaaggcagagtacacagacactttatgtt tgttgcccccagggatacaaccgtcgtggtcagcccctcctccatcgt aggaaggtagtcctgtgaacatgacctgctctagcgatggccttcca tccgaacatcctgtggagcaggcggctaagtaatgggcgcctgcag tctttctgaggatccaattctcaccttaacttctgcaaaaatggaagatt ggtatttatgtgtgtgaagggattaaccaggctggaataagcagaaa aagtagaattaattatccaagttgctccgaaagacatacagcttatag ttccttctgagagtgtcaaggaaggagacactgtcattatctcctgtac gtggaaatgttccaaaaacttggataatcctgaagaaaaaagcaga acgggagacacagtgctaaagtccagagatggtgcatataccatc caaggtccagttagaggatgcggg	
C28	Phenol sulfotransferase	D29807	gctccccagaccttgttggatcagaaggtcaaggtggtctacgtcgcgaacgcaaaagatgtagctgtctcctattaccacttctaccgcatgcaaggtgcaccctgaccctgacacctgggacagcttcctggagaacatgggtggg	

	TABLE 2 TA		ENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
			ctttcaaggagatgaagaacaactccatggctaactacaccaccttatccctgacatcatggaccacagcatttctgccttcatgaggaaaggcatctcggggggactggaagaccaccttcactgtggcccagaatgagcgctttgatgc (SEQ ID NO: 142)
C29	GRP94	U01153	aatcccagacatccctgatcaaagacatgctgcgacgagttaagga agatgaagatgacaaaacggtatcggatcttgctgtggttttgtttg
C30	E-selectin	L23087	ttacacggttgctgtcactggatgaaataattgccaaggagtttaggggaacacacttggtcaaagtattctatcaccaacatgcaaaaaaatatttaaatgccaaggcgagtacatggggaaatcctgcttaatactttgtgcaaggattgctaaacacagtcctaatcccttttacccctgtgggattcagtgctttaaagtgttcttagagattttaaagtgttctttatttgcattggctaaagtaattttccctaattcttaattcagtgtaagtgtttagagactttaaaatatatgcatgttagagctatgatagggtaaaagttacttatcagggatctttgttataagggactctaatgttatatctgtagtaaagttgttaaaaggggcaaagctgtccccagtattacgtgaatcagtgtaaagttgtgaatgttttactatgttgttataaaacatgaatagtggggcacctgggtg
C31	gastric lipase	Y13899	tgcactatcatcagagcatgcctccctactacaacctgacagaca
			(SEQ ID NO: 145)

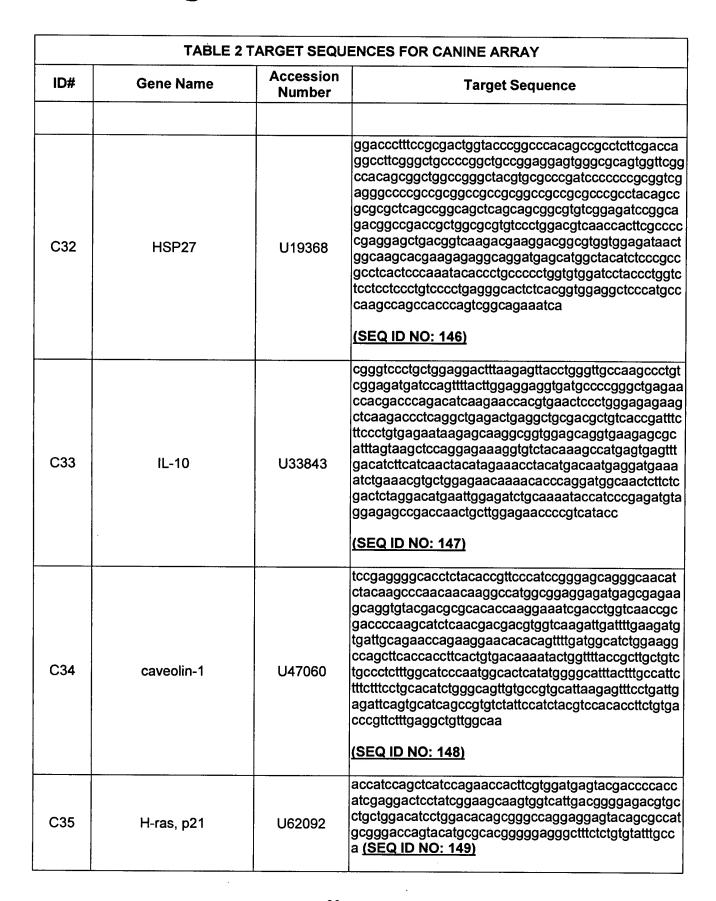


	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C36	rab2	M35521	agacaagaggtttcagccagtgcatgacctgactatcggtgtagagttt gtgctcgaatgataactattgatgggaaacagataaaacttcagatatg ggatacggcagggcaagagtcctttcgttccatcacaaggtcatattac agaggtgcagcaggggctttactagtgtatgatattacaaggagagat cattcaaccacttgacaacctggttagaagatgcccgccagcattcca ttccaacatggtcattatgcttattggaaataaaagtgatttagaatcaag aagagaagtaaaaaaagaagaggtgaagcttttgcacgagaaca ggacttatcttcatggaaacttctgctaagactgcttccaatgtagaaga gcatttattaatacagcaaaagaaatttatgagaaaatccaagaagga gtctttgacattaataatagaggcaaaacggcattaaaattggccctcagc cgctgctactaatgccacacac		
C37	rab5	M35520	aagcctagtgcttcgttttgtgaagggccaatttcatgaatttcaagagattaccataggggctgcttttctaacccaaactgtgtgtcttgatgatacaacagtaaagtttgaaatatgggatacagctggtcaagaacgataccatagcttagcaccaatgtactacagaggagcacaagcagccatagttgtatagatatcacaaatgaggagtcctttgccagagccaaaaactgggttaagaacttcagaggcaagccagtcctaacattgtaatagctttatcaggaacaaggctgatcttgcaaataaaagagctgtcgatttccaggaagcaagtcctatgcagatgacaacagtttattattcatggagacatcagctaaacatcgatgaacgtaaatgaaatattcatggcaatagctaaaaagttgcaaagaacgaac		
C38	rab7	M35522	ccccaacacattcaaaacctcgatagctggagagatgagtttctcatcaggccagtccccgggatcctgaaaacttccctttcgttgtgttgggaaccaggattgacctcgaaaacagacaagtggccacaaagcgggcacggcttggtgtacagcaaaaacaacattccctacttcgagaccagtgcaaggaggccatcaatgtggagcaggaggtgtccagacgattgcaaggatgcacttaaacaggaaacagaggtggagctgtacaatgaattcccaaaccatcaaactggacaagaacgacgggccaagacctcagcgaaagctgcagttgctgaaggggcagtgagagcagagacacagagtcacacaaaaaacaacaaaaagacacattaggccttccaacacagagcccccttctcttccaaacaaa		
C39	APO CII	M17177	ctggttctgttgcttgtcctcctggtattgggatttgaggtccagggggccatgagtccagcaagatgaaaccaccagctccgccctgctcacccatgcaggaatcactctacagttactggggcacagccagatcggctgcaggaggacctgtacaagaaggcatacccaactaccatggatgagaaaccagggacatatacagcaaaagcacagcagctgtgagcacttacgc		

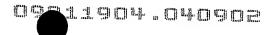


	TABLE 2	TARGET SEQU	JENCES FOR CANINE ARRAY
ID#	Gene Name	Accession Number	Target Sequence
			gggattttcactgacc (SEQ ID NO: 153)
C40	endothelin-2	X57038	ctgtccgcctctgtcccctgttgcgcacgcaggcaagggcaaggtggcgctgccccggagcatccagcacctcagcccgggcccgaggctccactgcggcctcgggttgctcctgcagctcctggctcgacaaggagtgcgtctacttctgccacctggacatcatctgggtgaacactcccgggtgagcctccgggggacccaggcggggctgctagagggggggg
C41	FGFR2	AF211257	tgattgttcttctgccaccaaaatgccagtagtaaacaaac
C42	leptin	AB020986	gccttaccctcagggaccttgcattccagatggtaaaaatgccacacaccagtatgcaaaggctggcctcgcaccatggcaactgagcagctgaaccagcgcactcctcagcagcggaaatgctgaactgagaatgtcagtgctcaggggccacaggctaaccctgctcccacttcgtagcatttttgcttttcagggcacggcagcatttattactgtgtagccacatccctctgaagcagcagcatagctgacaatttaaaaataagaactaagaacatacctaagaccataacggcagacaagtagcagggccgagactagagttcaggacctctgactcccagagtgtcccgggagccaggtaatgctccctggaggtgcaaatagggttgggcaggggagaccagaatggcttacagggaggg
C43	prostaglandin D synthase	7.1232000	aggtgtccctgcagcccaacttccaacaggataagttcctggggcgctg gttcacctcgggcctcgcctc

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
			ccaactacgaggagtacgcgcttctctacaccgcaggcag		
C44	paraoxonase2 (PON2)	L48515	caggactccacagcttttccccagataagcctggagggatattaatgat ggatctaaaaaaggaaaacccgagggcactggaattaagaatcagc cgtgggttcaatttggcttcgttcaatccacatggtatcagcaccttcatag acagcgacgacacagtttatctctttgttgtaaaccatccagaattcaag aatacagtggaaatttttaaatttgaagaagaagaagaaaattctcttctgcat ctaaaaacaatcaaacatgaacttcttccaagtgtgaatgatatcatagc tgttggaccagcacatttctatgccaccaatgaccactatttctctgatcctt tcttaaagtatttggaaacatacttgaacttacactgggcaaatgttgttta ctacagtccagatgaagttaaagtggtagcagaagggtttgatgcagcaaatgggatcaatatttcacc		
C45	beta-glucuronidase	AF019759	cgccgtatgtggacgtcatctgtgtcaacagttactactcttggtatcacg actatgggcacatggaggtgattcagctgcagctggccaccgagtttga gaactggtataggacctaccagaaaccaataatccagagcgagtacg gggcagagacaattgcaggcttccaccaggatccacctctgatgttcagt tgaggagtaccagaaaggtctgctcgagcagtatcacttggtgctggat cagaaacgcaaagaatatgtggttggagagctcatctggaattttgctg atttatgactgaccagtcaccacagagagcagtagggaaccagaaag ggcatcttcactcgccagagacaacccaaagcggcggccttcctt		
C46	caveolin-2	AF039223	ctccaggtgggcttcgaggacgtgatcgcggacgccgtgtctacgcacctttgacaaagtgtggatttgcagccatgccctgtttgaggtcagcaagacgtgatctacaagttcctgacgttgctcctggcgatgcccatggccttccggcaggggttctcttcgccaccctcagctgcctgc		

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C47	matrix metalloproteinase- 14	AF032025	ttetteaaaggagacaagcactgggtgtttgatgaagcttetetggaacet ggetaceceaagcacatcaaggagctgggccgaggactgcetactga caaaatcgatgetgetetettetggatgeccaatggaaagacetacttett ceggggaaacaagtattacegttteaacgaggaactcagggcagtgg acagegagtaceccaaaaacatcaaggtetgggaaggaatceetga gteteccagagggtcatteatgggcagtgatgaagtetteaetteta caaggggaacaaatactggaaattcaacaaccagaagetgaaggta gagecaggeta (SEQ ID NO: 161)		
C48	matrix metalloproteinase- 9	AB006421	gattctccaagggcaagggacgccgggtgcagggcccettcttatcac cgagcacgtggcctgcgctgccccgcaagctggactccgcctttgagg acgggctcaccaagaagactttcttcttctctgggcgccaagtgtgggtg tacacaggcacgtcggtggtaggcccgaggcgtctggacaagctggg cctgggcccggaggttacccaagtcaccggcgcctcccgcaagcgg ggggtaaggtgctgctgttcagcaggcagcgcttctggagtttcgacgtg aagacgcagaccgtggatcccaggagcgccggctcggtggaacag atgtaccccggggtgcccttgaacacgcatgacatcttccagtaccaag agaaagcctacttctgccaggacgcgttctactggcgtgtgaattctcgg aatgaggtgaaccaggtggacgaagtgggctacgtga		
C49	IL-8	U10308	gtggcccacattgtgaaaactcagaaatcattgtaaagcttttcaatgga aatgaggtgtgcctggaccccaaggaaaaatgggtacaaaaggttgt gcagatatttctaaagaaggctgagaaacaagatccgtgaaacaaca aacacattctctgtggtttccaagaattcctcaggaaagatgccaatgag acttcaaaaaaaatctatttcagtacttcatgtcccgtgtagacctggtgag gattgccagataaaaatacagtatgcccagttagatttgaatattaagta aaacaatgaatagttttttctaaagtctcatatatgttgccctattcaatgtc aggcacacttacattaaacatattattcattgttgctgtaaattcaaatgta gctggaaatcctggatatattttgttgttgttacatctttccacctcacctaca ggccaggatgcatgagtcccttttcaaccttgccttg		
C50	keratinocyte growth factor	U80800	caatgacatgactccagagcaaatggctacaaatgtgaactgttccag ccctgagcgacatacaagaagttatgattacatggaaggaggggata aagagtgagaagactcttctgtcgaacacagtggtatctgaggattgat aaacgaggcaaagtcaaagggacccaagagatgaagaacagttac aatatcatggaaatcaggacagtggcagttggaatagtggcaatcaaa ggggtggaaagtgaatattatcttgcaatgaataaggaagg		

TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
Gene Name	Accession Number	Target Sequence		
		aa (SEQ ID NO: 164)		
decorin	U83141	gattgaaaatggagccttccagggaatgaagaagctctcctatatccggattgctgataccaatataactaccatcctcaaggtcttcctccttcccttactgaattacatcttgaaggcaacaaaatcaccaaggttgatgcatctagcctgaaaggactgaataatttggctaagttgggactgagttttaacagcatctccgctgttgacaatggcactctagccaacactcctcatctgagggagcttcacttggacaacaataagctcatcagagtacccggtgggctggcggagcataagtacatccaggttgtctaccttcataacaacaatatatctgcagtcggatctaatgacttctgcccacctggatacaacaccaaaaaggctcttattcaggtgtgagccttttcagcaacccagtgcagtactgggagatccagccatccaccttccggtgtgtctacgtgcgctctgccatccagcttggaaattat		
glucose-6-phosphatase	U91844	ctggggatctcagctgcaggattttctacctgtcccatccttacaagaaaa gggaaaggagcagtggcatttgataggaaagaagaatggattaaggaaagaattcttcgtatcctgcatatcatgcaaattcatgttacacaaaatcaaatcgctttgattatatttgaatttttaggtaaggaactctcaatagtgggggaccaacttaaagcataactaataggtagttaatggggtaattctgcttcttctatgtttctactatgtattcagtgacctagatttgtgctgggtcagagcattcagattagtcagcttctctatcacactacatcttcctccttgtcagcctagctcagctttccctagaactttccactgctctacatcgtgctgacacagagatgcctaaaggcagctctagggtagtgcttttgtatggtttagtcaagctctgaaatcttgggcaaaaaggtgagggagg		
TGFB1	L34956	gaccettectgetecteatggeeaceceaetggagagggeecageacetgeacageteceggeagegeeggeeggeeggeeggeectggaeaceaaetaetgetteeggeecegggagagggeecaggaggagggeecaggaggeecaggaggeecaggggeeggee		
	decorin glucose-6-phosphatase	Gene Name Accession Number decorin U83141 glucose-6-phosphatase U91844		

	TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY				
ID#	Gene Name	Accession Number	Target Sequence		
C54	ZAP36/annexin IV	D38223	gacacgtccttcatgttccagagggtgctggtgtcgctgtcggccggtgg cagggatgaaggaaattttctggacgatgctctcatgagacaggatgct caggacctgtatgaggctggagagaagaaatggggaacagatgagg tgaaatttctgactgttctctgctcccggaaccgaaatcacctgttgcatgt gtttgatgaatacaaaaggatatcacagaaggatattgagcagggtatt aaatctgaaacatccggtagctttgaagatgctctgctggccatagtaaa gtgcatgaggaacaaatctgcatactttgctgaaaggctttataaatctat gaagggcttgggaacagatgataacaccctcatcagggttatggtgtct cgagcggagatcgatatgatggacatccgggagagcttcaagaggcttacggaaagtctctgtactccttcatcaagggtgacacatctgg		
C55	N-ras	U62093	gttggagcaggtggtgttgggaaaagcgcactgacaatccagctaatccagacactttgtagatgaatatgatcccaccatagaggattcttaccgaaaacaggtggttatagacggtgaaacctgtctgt		
C56	K-ras	U62094	gtagttggagctggtggcgtaggcaagagtgccttgacgatacagcta attcagaatcactttgtggatgaatatgatcctacaatagaggattcctac aggaaacaagtagtaattgatgagagaaacctgtctcttggatattctcga cacagcaggtcaagaggagtacagtgcaatgagggaccagtacatg aggactggggagggctttctttgtgtatttgcc (SEQ ID NO: 170)		
C57	p38 MAPK	AF003597	ctggtgacccatcttatgggagcagatctgaacaacattgtgaaatgtcagaagcttacggatgaccatgttcagttccttatctaccaaattctccgaggtctcaagtatatacattcagctgacataattcacagggacctaaaacctagcaatctagctggaatgaagactgtgagctgaagatcctggactttggactggactgacaggcccgacatacagatgatgaaatgacaggctatgtggctaccaggtggtacagggctcctgagataatgctgaactggatgcattacaaccagacagttgatatttggtcagtgggatgcataatggccgaactgttgactggaagacagttgttcctggtacagaccatattgatcagttgaagctcattttaagactcgttggaaccccaggggctgatcttttgaagaaaatctcctcagagtctgcaagaaactacattcagtctttgacccagatgccgaagatgaacttttgcaaa		

Please substitute **TABLE 3 50-mer target sequence for canine arrays** with **TABLE 3 50-mer target sequence for canine arrays** amended as follows:

TABLE 3 50-mer target sequence for canine arrays

F	ComPont					
ID#	Gene Name	GenBank Accession Number	50-mer sequence			
C58	Cytochrome P450 2D	D17397	ccggctcctcagcaggggcccgaggtacaat aaaccagtttggtggctcc (SEQ ID NO:172)			
050	Cytochrome P450 2B M92447		aactcaaataaacatcaaaagcctgacatcc cctggtcaggtggtgagcc			
C59	Cytodinome 1 400 2B	11102111	(SEQ ID NO:173)			
000	Cytochrome P450 2C41	AF016248	ccagtgaacatccaacctccattaaaggaaa gtctccagaatttctttgc			
C60		, C . C . C	(SEQ ID NO:174)			
C61	Cytochrome P450 2C21	AF049909	tatctctgcctctctctgtgtgtgtgtctctcatgaa taaataaaatctt (SEQ ID NO: 175)			
C62	Cytochrome P450 3A	X54915	gtgacacagaatgagaaactcttaactctggg aaatgtacaagggatagt			
			(SEQ ID NO: 176)			

Please substitute **Table 6** with **Table 6** amended as follows:

	Table 6				
ID#	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array	
C64	Gadd45	AACTGA ACCAAA TTGCACT GAA (SEQ ID NO: 177)	CCATG TAGCG ACTTT CCCG (SEQ ID NO: 178)	CGCGTCTAGAAACTGAACCAAATTGCACTGAA GTTTTGAAATACCTTTGTAGTTACTCAAGCAGT TACTCCCCACACTGATGCAAGGATTACAGAAA CTGATGTCAAGGGGCTGAGTGAGTTCAACTAC AGATTCCGGGGGCCCGGAGCTAGATGACTTTG CAGATGGAAAGAGGTGAAAATGAAGAAGGAA GCTATGTTGAAACAAATACAAGTCAAAAGGAA CAAAAATTACAAAGAACCATGCAGGAAGAAG CTTGGCC (SEO ID NO: 179)	

C65	Super- oxide dismu-tase Mn	AACAAC CTGAAC GTCACC GA (SEQ ID NO: 180)	TCTCC CAGTT GATTA CATTC CAAA (SEQ ID NO: 181)	GCGCGAATTCAACAACCTGAACGTCACCGAGG AGAAGTATCTGGAGGCGCTGGAGAAGGGTGAC ATTACAGCTCAGATAGCTCTTCAGCCTGGGCTC AAGTTCAATGGAGGAGGTCATATCAATCATTC CATCTTCTGGACAAACCTGAGCCCTAAGGGTG GTGGAGAACCAAAAGGGGAATTGCTGGAAGC CATCAAACGTGATTTTGGTTCCTTCGACAAATT TAAGGAGAAGTTGACCACTATATCCGTCGGTG TCCAAGGCTCAGGTTGGGGTTGGCTTGGTTTCA ATAAGGAGCAGGACGCTTGCAGATTGCTGCT TGTTTTAACCAGGATCCCCTGCAAGGAACAAC AGGTCTTATTCCACTACTGGGGATCGATGTGTG GGAGCATGCTTATTACCTTCAGTATAAAAATGT CAGACCGGATTATCTAAAAAGCTATTTGGAATG TAATCAACTGGGAGAAAAGCTTGGCC (SEQ ID NO:182)
C66	UV Excision repair protein RAD23 (XP-C)	GAAAGT CAGGCT GTGGTTG A (SEQ ID NO: 183)	TGGCA GCCAA ATTCT CATTC (SEQ ID NO: 184)	CGCGGGATCCGAAAGTCAGGCTGTGGTTGACA CCCCTCCCGCAGTCAGCACTGGGGCTCCTCCAT CTTCGGTGGCAGCTGCTGCAGCAACTACAACA GCGTCAACAACACACAGCGAGTCCTGGAGGACA TCCCCTTGAATTTTTACGGAATCAGCCTCAATT TCAACAGATGAGACAAATTATTCAACAGAATC CTTCCCTGCTCCCAGCATTGCTACAACAGATAG GTCGAGAAAATCCTCAATTACTGCAGCAAATT AGCCAGCACCAGGAGCATTTTATTCAGATGTT AAATGAACCAGTTCAAGAAGCTGGTGGTCAAG GAGGAGGGGGTGGAGGTGGCAGTGGAGGAAT TGCAGAAGCCGGAAGTGGTCATATGAACTACA TTCAAGTAACACCTCAGGAAAAAGAAGCTATA GAAAGGTTAAAGGCACTAGGATTTCCTGAAGG ACTTGTGATACAAGCGTATATTGCTTGTGAGA AGAATGAGAATTTGCTTGCCC (SEQ ID NO: 185)
C67	Proliferati ng cell nuclear antigen gene	GATAAC GCGGAT ACCTTGG C (SEQ ID NO: 186)	AGTGT CCCAT ATCCG CAATT TT (SEQ ID NO: 187)	GCGCGGATCCGATAACGCGGATACCTTGGCGC TGGTATTTGAAGCACCAAGAACAGGAGTACAG CTGTGTAGTAAAGATGCCTTCTGGTGAATTTGC ACGTATATGCCGAGATCTCAGCCATATTGGAG ATGCTGTTGTAATTTCCTGTGCAAAAGACGGA GTGAAATTTCTGCGAGTGGAGAACTTGGAAA TGGAAACATTAAATTGTCACGGACAAGTAATG TCGATAAAGAGGAGGAAGCTGTTACCATAGAG ATGAATGAACCAGTTCAACTAACTTTTGCACTG AGGTACCTGAACTTCTTTACAAAAGCCACTCC ACTCTCTTCAACGGTGACACTCAGTATGTCTGC GGATATGGGACACTAAGCTTGGCC (SEQ ID NO: 188)

C68	Glucose- regulated protein 94	CTGTGGT GTCTCTG CGCCT (SEQ ID NO: 189)	TTTCA GCTGT AGATT CCTTT GCTG (SEQ ID NO: 190)	CGCGGGATCCCTGTGGTGTCTCAGCGCCTGAC AGAGTCTCCGTGTGCTCTGGTGGCCAGCCAGT ATGGATGGTCTGGCAACATGGAGAGAATCATG AAAGCTCAAGCATACCAGACGGGCAAAGACAT CTCTACAAATTACTATGCCAGCCAAAAGAAAA CATTTGAAATTAATCCCAGACATCCCCTGATCA AAGACATGCTTCGACGAGTTAAGGAAGATGAG GATGACAAAACGGTATCGGATCTTGCTGTGGT TTTGTTTGAGACAGCAACGCTGAGATCAGGCT ATCTGCTACCAGACACTAAAGCATATGGAGAT CGAATAGAAAGAATGCTTCGCCTCAGTTTAAA CATTGACCCTGATGCAAAGGTGGAAGAAGAAC CAGAAGAAGAACCCGAAGAGACAACCGAGGA CACCACAGAAGACACACAGAGCAGACGATGAA GAAGAAATGGATGCAGAAGAACAGACGACGAAG AACAAGAAACAGCAAAGGAATCTACAGCTGA AAAAGCTTGGCC (SEQ ID NO: 191)
C69	Gluta- thione S- trans- ferase alpha subunit	CAGAGA AGCCCA AGCTCC AC (SEQ ID NO: 192)	ACCAG ATGAA TGTCA GCCCG (SEQ ID NO: 193)	CGCGGGATCCCAGAGAAGCCCAAGCTCCACTA CTTCAATGGACGAGGCAGAATGGAGTCCATCC GGTGGCTCCTGGCTTCAGCTGGAGTAGAGTTT GAAGAGAAATTTATAAATGCTCCAGAAGACTT GGATAAATTAAAAAATGATGGAAGTCTGATGT TCCAGCAAGTGCCAATGGTGGAAATTGATGGA ATGAAGCTGGTACAGACCAGAGCCATTCTCAA CTACATTGCCACCAAATACAACCTCTATGGGA AAGACATAAAGGAGAGAGCTCTGATAGATATG TACACAGAAGGTATAGTAGATTTGAATGAAAT GATCATGGTTTTGCCTCTATGCCCACCTGATCA AAAAGATGCCAAGATTACTCTGATCAGAGAGA GAACAACAGATCGTTATCTCCCCGTGTTTGAA AAAGTGTTAAAGAGCCATGGACAAGACTACCT TGTTGGCAACAAGCTGAGCCGGGCTGACATTC ATCTGGTCTCGAGGGCC (SEQ ID NO: 194)
C70	BR-cadherin	GTCCGTG GCAGAG TCCCTCA GCTCTAT (SEQ ID NO: 192)	CACCG TGATG CCACA TAGCT ATCTT CG (SEQ ID NO: 196)	GTCCGTGGCAGAGTCCCTCAGCTCTATAGACTC TCTCACCACAGAGGCTGACCAGGACTACGACT ATCTGACAGACTGGGAACCCCGCTTTAAAGTC TTGGCAGACATGTTTGGGGAAGAAGAGAGTTA TAACCCTGATAAAGTCACTTAGGGCAGAAGCC AAGGATAAAACACAACCAAAAGGAGAAATTT AAAAGAAACACAAAATAGAAATCTCTCTCTCTC ACACACACACACACACACACACAC

C71	N- cadherin	GGAGCC TGATGCC ATCAAG CCTG (SEQ ID NO: 198	GGTTT GCAGC CTATG CCAAA GCC (SEQ ID NO: 199)	GGAGCCTGATGCCATCAAGCCTGTAGGAATCC GACGATTGGATGAGAGACCCATCCACGCCGAA CCCCAGTACCCGGNCCGATCTGCAGCCCCGCA CCCTGGGGACATCGGGGACTTCATTAATGAGG GCCTTAAAGCTGCTGACAATGATCCCACAGCT CCACCATATGACTCCCTCTTAGTCTTTGACTAC GAAGGCAGTGGCTCTACCGCTGGGTCTTTGAG CTCCCTTAATTCTTCAAGTAGTGGTGGCGAGCA GGACTATGACTACCTGAACGACTGGGGGCCAC GGTTCAAGAAACTTGCTGACATGTATGGTGGA GGTGATGACTGAACTTCAGGTGAACTTGGTC TTTTGGACAAGTACAAACAATTTCAACTGATAT TCCCAAAAAGCATTCAGAAGCTAGGCTTTAAC TTTGTAGTCTACTAGCACAGTGCTTGCTGGAGG CTTTGGCATAGGCTGCAAACC (SEQ ID NO: 200)
C72	Mek5	TCATGG ATGGGG GATCTTT GGATG (SEQ ID NO: 201)	GGGTG GCCCA TCAAT TCTTC AGGT (SEQ ID NO: 202)	GGGTGGCCCATCAATTCTTCAGGTGCTGGTCTT TCTTTCGGTTGTTTTCGCATGCACTGAGTGATG AAATGTACAAATGGCTCGGAGAACTCTCCAAC CGGAAGGACGGGCGAATCCTCATCAACAATGC ACTGCAGAAGCTGGAGAGGCTCCATGAAAGAG ATTCCTAAACTCCGGACATCAGAATGGATTCC ATACTGCTCCCCTGAAATTCTTTCAGGCGCCAT ATAAGCATTTGTTCCAACATACGTCTTGGCTAT AGAATTCACCAGCTGAGTGCTAACTCCAAAAT CGCACAGCTTGACCTGTCCTCTTGTGTTTACTA GCGTATTGGAGGGCTTCACATCTCTATGTAAA ATCTTTAAACTCCACAAGTAGGTAAGGCCTTTA ACAACTGCTATTGCAATTCTTCCAAGGACATGC TCTGGAATTTTTCTATATACATCCAAAGATCCC CCATCCATGA (SEQ ID NO: 203)
C73	Glucose transpor- ter	GCAGCA GCCTGTG TATGCCA CC (SEQ ID NO: 204)	AAGCC GGAA GCGAT CTCAT CGAA (SEQ ID NO: 205)	AAGCCGGAAGCGATCTCATCGAAGGTCCGGCC TTTGGTCTCAGGAACTTTGAAGTAGGTGAAGA TGAAGAACAGAAC
C74	SHB (Src homology 2 protein)	CGCCGA TGAGTA CGACCA GCCTT	GCTCA GCCCC TTTGA TGGGT AGC	CGCCGATGAGTACGACCAGCCTTGGGAGTGGA ACCGGGTCACCATCCCAGCTCTGGCAGCCCAG TTTAATGGCAACGAGAAACGGCAATCATCCCC CTCTCCTTCCCGGGACCGGCGCGCCAGCTTCG AGCTCCTGGAGGGGGCTTCAAGCCCATTAAGC

		(SEQ ID NO: 207)	(SEQ ID NO: 208)	ATGGGAGCCCTGAGTTCTGTGGGATCTTGGGAGAAAGAGTGGATCCTGCTGTCCCGCTGGAAAAGCAAATCTGGTATCACGGAGCCATCAGCAGAGGAGTGCTGCAAGGAGTGCAGCTACCTTGTCCGGAACAGCCAGACAAGCAAG
C75	Ear-3 (v- erbA related) or Apolipopr otein AI regulatory protein (ARP-1)	TGCAGA TCACCG ACCAGG TGTCC (SEQ ID NO: 210)	CATAT CGCGG ATGAG AGTTT CGATG G (SEQ ID NO: 211)	TGCAGATCACCCGACCAGGTGTCCCTGCTTCGC CTCACCTGGAGCGAGCTGTTTGTGCTGAATGC AGCACAGTGCTCCATGCCCCTCCACGTCGCCC CGCTCCTGGCCGCCGCAGGCCTACACGCCTCA CCCATGTCCGCCGACCGAGTGGTCGCCTTTATG GACCACATACGGATCTTCCAAGAGCAAGTGGA GAAGCTCAAAGCGCTGCACGTCGACTCCGCCG AGTACAGCTGTCTCAAGGCCATAGTCCTGTTCA CCTCAGATGCCTGTGGTCTCTCTGATGTAGCCC ATGTGGAAAGCTTGCAGGAAAAGTCCCAGTGT GCTTTGGAAGAATACGTTAGGAGCCAGTACCC CAACCAACCAACACGATTCGGAAAGCTTTTAC TTCGCCTCCCTTCCCT

Please substitute Table 7 with Table 7 amended as follows:

	Table 7						
Band #	Genbank Gene Name	Accession	Sequence				
CTP1D	No significant match		GACTGAGACCATTTATTCNAG ACACGCAGCTGACCAAGGAGT GAGGGAGGGACCAGGTGTGC AAGCTAATAAATAGAGGAGGG GGAGACTTCCTGGAGCTGTAG CCATTCAGTCTTCATTCTTCTC AGGCATGAAGGCATCTCTTTT CTGACCAAAGCTT (SEQ ID NO: 213)				
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATAT TAGTTTGCATTTTAGTGACAG GTGTAAGAGAAAGGCCCCTTC TTCCCTTACTGGGACAAATCT AGAAATCTTACACAGATGTGC AAATAAAGCTCGCGTGGTGTT C (SEQ ID NO: 214)				
СТРЗВ	Homo Sapien N-myc downstream regulated (NDRG1)	BC003175	GCAAAGTTACAAATTTATTGGT CTGGAAATAAATACAAATATCT GATTAAGAAACTTCTCTGGAA AGACTTGTACACAACAGTTTTC CTGTCTCGATTCAGCCACTCC TGCCCTGACCAAAGCTT (SEQ ID NO: 215)				
CTP4B	No significant match		GAGCAGCAGTGAGCAAAACC CACGAAGTTGTTTTAAGGTTA CAGCTATGAATAAACATTGTC CAAACAATGAAGATTTAGGGC TGAAGAACGAGCGTATGTCTA CAGTCGAAGCTT (SEQ ID NO: 216)				
СТР7В	No significant match		CAGGTGCAAGAGGTTTGTTTG GGAGGTAATCCTAGAAACCAC AGAAGGGGGTGGGGATAGGA GGGATGGCAGGAAAACCAGT AAGAACTGTGTTATTGAGAAG GTTATCACTGTGGACAACTGG CACAGAATACACTTCAGAGCT GTCGCCCTGAGGGACAATGA CGCCAAGGTCTTTTTCTCTAA GTCCTGTTTCTTATAGGCCGA GGGTGGCTCCTGGGAGCAGT AACTGCCAACAGTCGAAGCTT (SEQ ID NO: 217)				

CTP8A	No significant match		AAGCTTGATTGCCCATACCTG AGCCATTGATATATTTGAAAAT TATGGCACAAATGGAAGAGAA CCACATTTGAAAAGCTTCCAG CCTTTCAACAGAAGATAACTCT TCTTGTTTTGCAGATTGAGCA GATAATTTCTTTTGAAGGTGAT AGTTTCCTAAATTGGATAAAAC CGTGGCTGCCATTATATTCAC AGAAAATAAAAT
CTP8C	Human DNA sequence from clone RP4-734P14 on chromosome 20	HSJ734P14	CAATATTCTTAAGAGTTTATTA TAAACTAGTTTCACAGGCTAC AAGGAAGTATTTAGGACTATG TACAGCCTGACGGGAAACAG GCAGGGAGCTGAGGGGCC AAGATGAGTCTAGGGCCTTGG TGGGCGCATTCCCGGGGGAG GGGGCCCTGAAAGGGAAACC AGACAATCCTGTGAGACTCCA AGAACAACGGCATAACAAACA AACACGTCTGTGGCAATCAAG CTT (SEQ ID NO: 219)
CTP10Y	Canis familiaris mitochondrion	CFU96639	AGTAGATGGGACCGAGAATAA TTTTAGGGTTAAGGGATAGGA GGAGTAGGGGCAGTAGGTGC AAGGTCATTAGGGCATTTTCT CGTGTGAATGATGGTTTGATA TTTTTGATATGGTGGGAATATT TACCACGTTGTGTGGTGATTA ATATATAAAGTGAGTATAGGG CGGTAAAAGCTT (SEQ ID NO: 220)
CTP11A	cyclin-dependent kinase inhibitor 1A (p21, Cip1),	BC001935	ACTAAGAAATATTTATTGAGCA CCTGCTGTGTACCCAGCACTG CGGGAGGGGCTGTGAGAGAC CCAGGGCAGTACAGGACTTGT TCTTGCCCTTCAGAGGCTTAT AGTCTAGGTGGAAACAGGAGA ACCAGGACACATGAGGAGCC AGGAGAAAACAGTACAGGCCA GGATGTTACAGGAGCCTACAG TGTTTGGGGTCAGACCCACTA AGTGCTTCAGTACCTCTAGGG GCTCAATGTTCAGGGCCAGAA GAGACAATAACTCACAACTAG CCCATGTAGCATGCCCTATCC ACAGCGTCTACCTCTGCTATC TTAAAACATCTGACTCCTCGTT AAGCTT (SEQ ID NO: 221)

			CAAAGAATTTTGTTTTATTATA GTACATGAGCTGGACTGATGG GAAAGGGTAGGTGTATGGGC AACCACTGCCCAGATTAGCAT CGGATGCCCATCCCGATGGC CATGAATGTGCCAAATGTGCC
CTP16B	Homo sapiens cDNA FLJ20541 fis, clone KAT11364	AK000548	GCCACTCTGCATCATGTGCC GCCACTCTGCATCATGTTTT CCCGATGCCGCCCATCAGCTC CCGACCCCGCATTCCGATCCT GAGACAGGAAAAGGTGCCGA AGAGCGCCCCGGCCGCCATG CCCACTGCACAAACCCATCACA AAGCCCATCTTCACGCGGTAA AAGCTT (SEQ ID NO: 222)
CTP17G	No significant match		CATATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAGA GACATTCAACAGTAGTTAGAA TGGCCATCTCCCAACATTTTAA AAAAACTGCACCCCCCAATGG GTGAACAAAGTAAAGAGTAGT AACCTAGAGTTCAGCTGAGTA AGCCACTGTGGAGCCTTAAGT GGTGAGGTCTTCCAATTTCAG AGTGATGTGTCTTCAACTTGTA TCATCATTTTAGCGGTAAAAG CTT (SEQ ID NO: 223)
CTP18B	No significant match		CCAAAGAAGTGTTTATTAACAT TTGGGGCCTCAGCGGGGCCA GAGAGGAAGTGGGTGCTAGA GGCTCCTGAGGCTCAGGGCA AGGCCTGCAAGACAGATCCCA TTGCTCAGGAGGCAGCCCAG ATTGCAAATGGAAGACAGG (SEQ ID NO: 224)
CTP19F	Homo sapiens chromosome 5 clone CTB-187A7	AC008651	AAGCTTTTACCGCAATGAGGG ATTTATACATGAAAAATGGACA AGGCTTTGCATTAGTTTACTCC ATCACAGCACAG

CTP20B	Bos taurus ribosomal protein L30 mRNA	AF063243	AAGCTTAACGAGGACAGGCCA TCAGGGCTGCCAAGGAAGCA AAAAAGGCTAAACAAGCATCT AAAAAGACAGCAATGGCTGCT GCTAAGGCTCCCACAAAGGCA GCACATAAGCAAAAGATTGTG AAGCCTGTGAAGGTTTCCGCA CCCCGAGTTGGTGAAAAACGC TAAGTTTTAGTGGATCAGATTT TTAAATAAACATCTGACTCTAA CT (SEQ ID NO: 226)
CTP21A	Rattus norvegicus ribosomal protein L31 (Rpl31),	NM_022506	CATGGAGCNGTTTTATACCTTT ATTTGACAATCAGCGATTAGTT CTCATCCACATTAACAGTCTGT AGATTTTTGAAAGTGGTGACA GGTACGTAGGTAACCAGCGTG TAGAGCTTGTTTGGTGAATCTT CATCCTCGTTAAGCTT (SEQ ID NO: 227)
CTP22C	Canis familiaris mRNA for ubiquitin-ribosomal protein L40, fusion	AJ388512	CAATGGTGTCACTGGGCTCGA CCTCAAGGGTGATAGTTTTGC CCGTCAGGGTCTTCACAAAGA TCTGCATCTCTGCGTCTGCTG GAGCGAACTCGCAAGGCCGC CGCCACCAAACCGCTCGCCC ACCTCGTTAAGCTT (SEQ ID NO: 228)
CTP25D	No significant match		AAGCTTGCACCATATATATAAC TCTTGGGCAGAGGGTCTGGC ATACATAAGTAGATACTCAGAA ATATCTGTTGGATTGTGTTGAT TTAATTATTTTTGTGTTGCTTC TTTTAAAGATGAGCACTTTCTA TTAGATATTTTTTTTGATCAAAA AAAAGATATTTTTTTTGATCATA CAGATTTAAGCAGGATTTTTAT TAATTCGTTTCTCTTCCTGGTT GG (SEQ ID NO: 229)
CTP26A	Canis familiaris chymase gene	U89607	CATGAGAGAGACGGAAAGAG AGGCAGAGACACAGGCAGAG AGAGAAGCAGGCTCCATGCA GGGAGCCTGACGAGGGACTC GATCCCAAGACTCCAAGATCG TACCCTGGGCCAAAGGCAGG AGCTTAACCGCTGAGCCACCC AGGTGTCCCAACTGTCAGGGT TTTAAAAGAGTGAGTGAAATTT GGGGAAATATCAAGGCACAGT CATATTCATAAACATAATACGT TGAGAAGCTT (SEQ ID NO: 230)

CTP26B	H.sapiens cycA gene for cyclin A	X68303	AAGCTTCTCAACGTATATGGT GTACAGTTTTTGTAAGGTTTTA ATTTTACAATCATTCTGAATAG TTATGGTCAAGTACAAATTATG GTATCTATTACTTTTTAAATGG TTTTAATTTGTATATCTTTTGTA CATGTAACTATCTTAGTTATTT GGCTAATTTTAAGTGGTTTTGT TAAAGTATTAATGATGCCACCT GTCAGCACAATAAGAGTAAGA ACTAATAAATGGATTTGG ID NO: 231)
CTP27C	Homo sapiens CTCL tumor antigen se20-10 mRNA	AF177227	AAGCTTCTCAACGTATTCAAG AGAAAACTTCTAAATTGCCAG ATATGTTAAAAGACCATTATCC ATGTGTGTCTTCACTGGAGCA GTTAACAGAGTTGGGAGGTGA AACTGATGTTTTTTGTATGCCGT CCTAACACAGCCCTATGCCCG ATGTACTCAGAGACTGGAACA GCACAAGAGAAATAAAGCAAC AATCAGTAATGGG (SEQ ID NO: 232)
CTP28D	Homo sapiens upstream binding protein 1 (LBP-1a) (UBP1	NM_014517	AAGCTTTGGTCAGGCAGGAAT AGGAATGAGTAATTTGGGCTT TGAAATCTCTCCCAGAAGACA AACTACTTCGATGGGAAAAAG CTTTGACATTTTGTGTTTTATT TGTAGAGGGGGGTTATTGGATA CAGAGGAGCCTGGTCTCATAC ATTTTCATCTTCAGTCTGAAAA GATCTGTAATTCTGTAGACCC TGAAGCGGGGGAACTTTTCTT TCTGCCATCTCCCTTTGCTTTC ATATGAACACCTCTTCTGTACC AATCATTTGGAAAAGAAGTGA GCATATCTCTTGTTTAAAAGT TTTGCTTGNCTGGTTAGCATT CCTTTTGAGCTCAACATATATG GAACAATAAATGTCATTTAATG CTGNGNGCTATTTTGAATTCC TCATCAGGTTTTAGAAGTGGG GTCAAGAACACTTAAAAGCTC ATTGGACTTTGAAATTATCCA GCCGCCNTTGACCATTATCTG GCCCANCAAAGCAGGTTAAAT TATGGCNCCNGCAAATTTGCT TTTTTTTTTAATAGNNGGANGN NTACNTTTCAGNTTAATAAATG TTTCCGATGGTTTGC (SEQ ID NO: 233)

			COTOAAAOTOTATAOTTTCA
CTP30E	Homo sapiens BAC clone CTB-60N22 from 7q21	AC003083	GGTCAAAGTGTATAGTTTTGA CTTACCCCTCCCAGATCCTGA ATGTCCTTTTGGAGTTTTTCAG ATACGGTGACAGAAGGTAAGT CAATGTAAAATATTTTTCCCCA GAGTGGCTTATATTTGTATTTT TCTGGTTTGTTATCAGTTTTCA TAGATTTCATAGATCTGTTTTT TTCATTTTTGACTTGGATTCCA CCTGTTGTTTAAAAAAAGTAGA ATCAGATCATGATTTATGTGGA CAGAAAATTTCTCTTTTAAAAA TACTTTTTATACAGTCATCATT TCATAGAGGGGGAAAAAATCT TTATAATACCACCAATTAAACA CTCAATAGCATTTACTGTATT TCTTCGTAGTATCACTTAGGAT AAAACCAGAATACCATTTGT TTTAACAGATCCCATACTTGT TTTAACAGATCCCATACTGTAA AATAATCATCGTTCACAGCCTA CAGTCGAAGCTT (SEQ ID NO: 234)
CTP31A	No significant match		GGGGCAGATAAAAACACTTAA TGTAAAATTTACCCTCTCAGAA AAATTTCCAGTATGCTATACG GTATCACTAACTATAGTCACTA TAGTATACAGTAGATCCCTAG GATTTATTCATGATGTACAGTC GAAGCTT (SEQ ID NO: 235)
CTP32D	cDNA FLJ14795 fis, clone NT2RP4001219	AK027701	AAGCTTGATTGCCAGAGTTAC GAAAAGCATCAAAGCATCTTT ATGGTCAGCTTAAATTTGGTA CACTAGATTGTACAATTCATGA GGGACTCTGTAACATGTATAA CATTCAGGCTTATCCAACAATA GTGGTGTTCAACCAGTCCAAC GTTCATGAATACGAAGGCCAT CACTCTGCTGAACAGATCTTG GAATTCATAGAGGACCTTATG AATCCTTCAGTGATCTCCCTG ACACCCACCACTTTCAATGAA CTGGTTAAACAGAGAAAACAT GACCAAGTCTGGATGGTTGAT TTCTATTCTCCATGGTGTCATC CATGTCAAGTCCTAATGCCAG AATGGAAAAGAATGGCCCGGA CATTAACTGGACTGATCAATG TGGGCAGCGTAGACTGCCAA CAGTATCATTCTTTTTTGTGCCC AAGAAAATGTTCGGAGATCCC TGAGATAAGAATTTACCCCCC (SEQ ID NO: 236)

CTP34A	Homo sapiens ribosomal protein S29	NM_001032	AAGCTTTGGTCAGGGCTCTCG TTCTTGCCGCGTCTGTTCAAA CCGGCACGGTCTGATCCCGG AAATACGGCCTCAACATGTGC CGGCCAGTGTTTCCGTCAGTA CGCCAAGGATATAGGCTTCAT TAAGTTGGATTAAGTGAACTTC CTTGAATGGGTCATCCAAGAT ACCTACCTTAACTGCAGATGT CCAAGATACCTACTTTGATGC CAACTCATTGTATATAAAATAA AAATACTCCAATTATGAGTGTT TTAATGTG (SEQ ID NO: 237)
CTP36A	No significant match		CAAGTTTTACCATTGTTTTAAT TATTGAAACAAAATTAACGTAA GTAGAATCATGTGCAACAGTG TCTCTAACATATGGAAGAGGT AAATATGAATTTTATACAATAA GGTATATTATCCACTGTAACAA ATTTCCAATAATTTGGCATTTA TCTTTCACAAAATGTCTCCCAA ATTCTAAGCAAAATGTCTCCCAA TTGGAGATTAACTCTAAACAGG CATAATTATCTTCTTATCCAGT TTTTCTGAAGAGAGACTGAAGAG TTCAGGTCTGACCAAAGCTT (SEQ ID NO: 238)
CTP37A	Homo sapiens nuclear factor associated with dsRNA NFAR-1	AF167569	CAGATGTGATAAAATCGTTTTC ATTACTGTCAAAGGCATCAAC CAGATTTGGGAATTTGTTAAAA GGTTAAAAATTCATACAAAACC TGCTGTAAATTAAGACAAAGG TAGATTAAAATGCATCATTATC TGTCTCTTAAATAAAGTAATGC TTTCCATAAAAAGCAAAGGTG GGCTTTTGCCTTGATGCTGAC CAAAGCTT (SEQ ID NO: 239)
CTP41B	Homo sapiens mRNA for KIAA1392 protein	AB037813	GGGAAGTGTCAAGGATCAGTT CCGTGGCACCCTCTGACCACA GACTGGGAGCAACACGCATCT GTGGCATTTAAAAATGGAATT GGCAACTTCATGACATTGGAA TGCATATCACACTTACAGTGT CTAGACTTTCCTATGTGTGCT CAGTTACAAGTAGTGAAGCAA AAGTATACATATCACCCCTACT GCTATTCGGTTGCTACAGAGC CATAAATGTGAAAAGCAATACT CTGAAATAAAGATTTTTGTTTT TTGCCCTAGCCTACTAAGCTT (SEQ ID NO: 240)

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CTP47G	No significant match		AAGCTTGCACCATACTCCTCC TCTACATATGCTCCCAAATTAC CTTCTAAAAAAGGCTGTATTAAT TTACTTTCACCAGTAGTATTAT GAGAGTGCCCATGTCCCTTAG CCTTTTAAAATTCACTATGAGC AATCTTTAAAATTCACTATGAGC AATCTTTAAATCATGTACTAAA TCTTATAGGCAAAGAATAGGG CCTTGCCCCTGCCCCTGTT (SEQ ID NO: 241)
CTP50A	No significant match		ATTCCTTTTCCAAGGACCTCTC TTCTATGTGATCACTGAGTAA GTTCAGTCACTCCCATCATCT CTAGATTGGAGATTTCCAAATT TATGGCCTTTCCTAACTTTGAA GTCCTTATTTCTAACTGCCTAC TAAGCTT (SEQ ID NO: 242)
CTP51A	Homo sapiens intestinal N- acetylglucosamine-6-O- sulfotransferase	AF219991	ATAAATAGAGATGGGGGTCTT GCTATGTTGCCAGGCTGGTCT TGAACTTCTGGGATCAAGCAA TCTGCCTGCCTTGGCCTCCTA AAGTGCTGGGATTACAGGTGT GAGTCACTGTGCCTGGCCTCA TATAGTCACTATAACAGCCTAC TAAGCTT (SEQ ID NO: 243)
CTP52B	No significant match		AAGCTTAGTAGGCAATAATAG AGAAGTAGAAATTGAATGTGG AACATTAACCATTAAAAATCAT ACTTTTGAATGTGCTGAGGTC ATGAATTGTTTTTACCTTCTTT GTAATTTGTGTTTTTCAGATTT TCTGTAGTTAGCATATATTCTA TAATCAGAAAAAGATGCTTCAA GTTTTTTGCAGATTTCACAGAA TTTTGTTT (SEQ ID NO: 244)
CTP53A	No significant match		AAACAAAATTCTGTGAAATCTG CAAAAAACTTGAAGCATCTTTT TCTGATTATAGAATATCTGCTA ACTACAGAAAATCTGAAAAAC ACAAATTACAAAGAAGATAAAA ACAATTCATGACCTCAGCACA TTCAAAAGTATGATTTTTAATG GTTAATGTTCCACATTCAATTT CTACTTCTCTATTATTGCCTAC TAAGCTT (SEQ ID NO: 245)

			AATTGTCACGAACAGGGCTGA
CTP58A	No significant match		CTGACACTGCAGTGTGTCCTT GTTTGTTGATCCCTGATCTAG GCCTCGGCTTTTCAAACTGCA GTTGATCAAACTGGGATATGC TTCGGCTGAATCTGCTCTCTG GTGCTTCTCTTTAATCGTTTTC TCCTTAAATGGGTTACTTTCTT ACTAGGAAAAAAAAAA
CTP59A	Homo sapiens cyclin D2 (CCND2)	XM_012143	AGGTCAAGGTGAGTTTATTGT CCAAATAGCATAACCTAATTG CATTCAAAACCATTTTCAAATC CATCTTTAAACTAGTCAGAAAA CAGGTTATTATTTTTTTAAATC ACTTAACACTGAACAGATAAG ACCTCTTAAAAAGGCAGCTGAC TATATCATGTCACCATCATAGC CAATACAACATTTTTGCCATAC TTCCTAAAAAACCTTTTCGCATA CACTGATCATGCTACTTATCA GCACTTTTTAACATCCTGACCA AAGCTT (SEQ ID NO: 247)
СТР60В	Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1)	XM_016120	ACTAAAATAAACCTGTTCGGG GGGAACAGCTACTAGATGAAT TTAAGGGTTTTATGCACCTTAT AGAACTTATAGCAAAAATAGTT TTAGTTGATTTCATTATAAATA ACGTTTTCAAGAACCTGTGCA AAACTGTCAATAATTTCCTAAA GCACAATTGATCAGAAAAATC CATGATTGTTCAGCCTTCACA CCCTTCTTCATGTAAGAACAC CCTTCTGTACATCTCACAGTTA CTTATTAGGTTGAAAGGTATAT GGTGAATGGTCATTAGACGTC TCGACAGCCACCTGCTGCTGA CCAAAGCTT (SEQ ID NO: 248)
CTP61D	prion protein [mink, Genomic, 2446 nt]	S46825	ACATTAAATGCCCAGTGCAAG CCAGGAACATTGCAGAATGCT AAATTTATCTGCTAGGTGATGA TATTGAACGATCTAGACAATAA TTTCACCTTACTTAAATAACAA TGAACAGAATTCCTTTTTTTCC ACTCTGAGTGGATATTTCTGT CATCTCTGACCAAAGCTT (SEQ ID NO: 249)

		AAGCTTCGACTGTCGCATCAA TGAATGTTTTAAGTAATAACTT TGCTGGTTATCAGCTTGATGG TGCATTAATTTTATGGCTCATT
CTP62A	No significant match	TCCTTTATTTTGACCATTGTCG GATTCTTCATTTTATATTGGAC GATCCCCAATCGAACGGTACC AATTTTTTCAGCTGTGATTGCG GCATGTTTCAACGCGACCGTT TTTGAAATTTTAAAACATTTATT TGGCTGGGTCATGAGTAATTT CACCAGCTATGAAATCGTTTAT GGTGCTTTTGCAGCAGTTCCT ATTTTCTACTTTGGATCTATC TGTCTTGGAATATCATTTTATT GGGTGTAGAAGTGAGTTATC ACTCACCGCCTTCCATTCTGG T (SEQ ID NO: 250)
CTP63A	No significant match	AGAATCAAGCCACCAGGTGTT TATTTTTGCACTATAAATAGAG TTCCCTAGTCCCATTTTGTTAC ATAATATATGAGATAACAGAGA ACCTAAAATTCATTTGGTGAAA ATCAAGTGTGTAGTATACCTAA ATACCAATGAGCTAGTAAGAC TTGTAAGGCACTGAAGCTAAG GCTAACAGCAACAGAGTCCTT TATGAAAATAATTTCAGAACCA CAACGCATTCTCTGATGGTGC ATTCCCCTGGGACAGTCGAAG CTT (SEQ ID NO: 251)
CTP64B	No significant match	CATCGCAGACATTTATTTTAGT TTTGTTAATTTCAAATATTCATT AACCTCTTGTATCAGATTTAAG GCAGAGAAAAGATACACGCCC CTGGTTAACTGAACCGGGGTT TAGATAGTGTAGTCCACCCTG GGTTCCACCAGGGAGACCTCA CCCGAGATGACAGGTCCGGTT GCTGGTGCACAGTCGAAGCTT (SEQ ID NO: 252)

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CTP65A	Pig mRNA for endoplasmic- reticulum Ca(2+)-transport ATPase (class 3 non muscle transcript)	X16951	CCATTTAAAATGTTTTATTTTC CTTTTTAAACTAGATTGTGAAG TGCCACTGAAATAGGCAATGT TGGCAAAACAATGTCTGTTAC AATAAAATACATTAGACATTTA AATAAATAACCTTAAAAACTAC ATGGGGGGACATGAACCCAG TCGATTGAATCTGGAACAATG TTTTCTGCACAAGCGAGAACA GGCATACCTCTTGTTAAGACT GATGTAAACAGAACCATCGGA ACCCTACAGTCGAAGCTT (SEQ ID NO: 253)
CTP67A	clone RP5-1071L10 on chromosome 20	AL133228	CACGTTTTAAAACTTTATTTGC ATATTAAAAAAAATTGTGCATTC CAATAATTAAAAATCATTTGAAC AAAAAAATGGCACTCTGATTAA ACTGCATTTTAACAGCCTGCA AGATACCTTGGGCCAGCTTGG TTTTTTACTCTAGATCTCACTG TCCTCCCACCCAGCTTCTTCC TTCACCAACATGCAAGTTCTTT TCCTTCCCTGCCAGCCAGCCA GACAGGCAGATGGGAAAGGC AGGCGCCTTCGTTGTCAGTAG TTCTCCATTCTTTGATGTGAAA AGGGGCAGCACAGTCATTTAA ACTCGATCCAACCGCTTTGCA TCTTACAAAGTTAAACAGCTAA AAGAGAAAAAAAAAA
CTP68F	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha Rabefla2)	U09823	CTCATTAAACTTTTGTTTTAAT GGGTCTCAAAATTCTGTGACA GATTTTTGGTCAAGTTGTTTCC ATTAAAAAGTACTGATTTTAAA AACTAATAACTTAAAAACTGCCA CACACGCACAAAAAAAAAA

CTP70A	No significant match		AAGCTTAGTAGGCACGCAATA AATAGGAGAATGAATCAGAGT CCTCCAACGCGTCCTCCCTAA TGTCCCTTTGAGCTGCCTCCT CTTCCACTCTGCCTCAGCTTG TCCATGTCACTTCGCTCCAGA GCAGCCGCAAGAGCATCTTAA CACCTTGTGGCCTGAACTCTC TCCCATCCTCCACTGTACAGT GATATGACTGAAACCTCATTTA ACCTTTTAGAACTACCAGGAG GAGGTTCCCAAGGATCCCAG
CTP71A	Canis familiaris caveolin-1 mRNA	U47060	CACTGAATCTCAATCAGGAAA CTCTTAATGCACGGCACAACT GCCCAGATGTGCAGGAAAGAA AGAATGGCAAAGTAAATGCCC CATATGAGTGCCATTGGGATG CCAAAGAGGGCAGACAGCAA GCGGTAAAACCAGTATTTTGT CACAGTGAAGGTGGTGAAGCT GGCCTTCCAGATGCCATCAAA ACTGTGTGTTCCTTCTGGTTCT GCAATCACATCTTCAAAATCAA TCTTGACCACGTCGTCGTTGA GAAGCTT (SEQ ID NO: 257)
CTP72B	No significant match		CCATTTTTGCTCTTAAAGAGCA TCTTAAGTGAGAGATCATGAC AATCTTTGGCCACTCCAGGTT TTCTCATCTACTACATGATCTG TTCCCAACAATAAGCCATTGA AATTAAAGGTCTCCAGAAGTTT TATCTGGGGTCTGTGATTGAA AAGAAGGAAAATGAGATGAG
СТР73А	Homo sapiens chromosome 11 clone RP11-546N8 map 11q	AC026201	CAAGCCCATCAATTAGTGTTC TTTTTATAGACATTACACACAA CACATATATAGTGACACACAC ACAAGATTCAACACTTGTAAG ATTTTTTATTTGCCAGTTTCTT AATTGGATTACTGGCATCAGG GTGGAAACTTTAGAGGAAGAG AGCCAGGTAGCATGCATTTCT AGGGCCTACTAAGCTT (SEQ ID NO: 259)

СТР73В	No significant match	CCCATAAGAAACATCTTTAAAA CATTCAGAATACTCAGGATAAT CAAGGCTAATATTCCTATAAAT TCCTTACGTGTATTATGTACAT TCAGAAAAGTGTAAATTACTCA AATATTATACTCAAAACCCCTT ATAGTCTGCTAACTTGCATGTA GAAACATCTGAAGTAACATGC TGCCTACTAAGCTT (SEQ ID NO: 260)
CTP74A	No significant match	AAGCTTAGTAGGCATCAATTG GATCCTTTCCTATGTTGAAATG GAAGAATTAATGAGCTTACATT AATTAGTATTGTAATGTGTAAA GGAAGCCCAGCAAAATTTTTT GAAAACTTGATGATCCCAACG TATTTACCATTGTATGTTAAAG CAAAATAAATCACCATTTTTTT A (SEQ ID NO: 261)
CTP75C	No significant match	AAGCTTCTCAACGGCCTCCAC CTCCTTTCTGCCCTCACAGCC TCCTGGCTCTGGCCCAAAAAG TGATTCATTTGTAAATTATCAT GGTTTTCTGCATTAAAATGGC CATTTCTGG (SEQ ID NO: 262)
СТР76В	No significant match	AAGCTTTTACCGCCATCTTGG CTCCTGTGGAGGCCTGCTGG GACCAGGACTCCTAAAGCGAC GANTTTTTNTGGAAGGCTTTG GTCCAAGGCCATTTTTGCCGG CTATAAACGGGGTCTCCGGAA CCAAAGGGAGCACACAGCTCT TCTTAAAATTGAAGGTGTTTAC GCCCGAGATGAAACAGAATTC TATTTGGGCAAGAGATGCGCT TATGTATATAAAGCAAAAGAAC AACACAGTCACTCCTGGCGGC AAACCAAACAAAACCAGNAGT CATCTGGGGAAACAAGTAACTCT GGGCCCATGGAAACAAGTGG CATGNGTTCCGTGCCAAATTC CGAAGCAATNTTCCTGCTAAT GCCATTGGACACAGAATCCGA GTGATGCTGTACCCCTCANAG GATTTAAAACTAACGAANAAN CAATAAATAAATGTGGATTTGC GNTCTTNGG (SEQ ID NO: 263)

CTP77D	No significant match		CAATTGGTTTAGTTTTATTTCA AAATTGTACAAAATGGCCATAA GCGGCTATAAAAAAATTTCGTTT TCGGAACACGTGGAAATTCAG AAAGAACAACAAAGCAGGTTA TCATTTCACAGTGTAATGGAAA AGCTCTCTCTGAGGCAGGAAT CACAACTCTTCCTTCTTCTCC CCAGTCTCTCGTGGTCTCCTT CCCGGAGCGCTCGAATGAAA CTGGTAAACCCCGATTCCGTC
СТР78В	Homo sapiens SON DNA binding protein (SON	XM_009738	CGATCGC (SEQ ID NO: 264) CGATGTTGAGATCCAGATGAC ACAGGAAATTCTTTTGTTAATG TTACCTGGCTTTTTGGTGGAG TTGGCTTTGCTGCAGCAATAT TCAGATTGAAAAAAATGGGTTT GGGTTCACTGAGTTTAAAGGG ATGATGATAAAAAAGGAGGTTC TTCTTCCTCTTCATCCCGAAAC ATGAGGCTTATTCACTATTACA TCATCATCTTCTTTACTCTGTG CGATCTGTTTGCATTTCTCAAG TTAGTTCTTCTATAGTNGCTCC TCCTGATTTTTTAGCAACTTTC TCTTCTATTGTGGGTGGAGGT GCACGCTTTTAGGTTTGCGG GTAAAAGCTT (SEQ ID NO: 265)
СТР79В	No significant match		CATATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAGA GACATTCAACAGTAGTTAGAA TGGCCATCTCCCAACATTTTAA AAAAACTGCACCCCCCAATGG GTGAACAAAGTAAAGAGTAGT AACCTAGAGTTCAGCTGAGTA AGCCACTGTGGAGCCTTAAGT GGTGAGGTCTTCCAATTTCAG AGTGATGTGTCTTCAACTTGTA TCATCATTTTAGCGGTAAAAG CTT (SEQ ID NO: 266)
CTP80A	Homo sapiens WDR4 gene for WD repeat protein	AB039887	CGCCGGCCAGAAAGCGTAATA TTCTTTAAAGGAACCTTAACAA AACTTTACACTTAATAATGTAA ATCTCACCATGTTCCTAGTCAA AAATTTACTACACAGACTCAGT AGCGGTAAAAAGCTT (SEQ ID NO: 267)

CTP81A	No significant match		CCAAAGAAGTGTTTATTAACAT TTGGGGCCTCAGCGGGGCCA GAGAGGAAGTGGGTGCTAGA GGCTCCTGAGGCTCAGGGCA AGGCCTGCAAGACAGATCCCA TTGCTCAGGAGGCAGCCCAG ATTGCAAATGGAAGACAGGCC ATGGTAGCGGTAAAAGCTT (SEQ ID NO: 268)
CTP85D	Homo sapiens Rho- associated, coiled-coil containing protein kinase 1 (ROCK 1)	XM_008814	AAGCTTAACGAGGAGACAGAG GTCATGATTCTGAGATGATTG GAGACCTTCAAGCTCGAATTA CATCCTTACAAGAGGAGGTGA AGCATCTCAAACATAATCTTGA AAGAGTGGAGGGAGAAAGGA AAGAAGCTCAGGACTTGCTTA ATCACTCGGAAAAGGAAAAGA ATAATTTAGAGATAGATTTAAA CTATAAGCTTAAATCATTACAA CAACGGCTAGAACAAGAGGTG AATGAACATAAAGTAACCAAA GCTCGTTTAACTGACAAACAT CAATCTATTGAAGAAGCAAAG TCTGTTGCAATGTGTG (SEQ ID NO: 269)
CTP86F	Homo sapiens chromodomain helicase DNA binding protein 3 (CHD3	NM_001272	AAGCTTAACGAGGACCCAAGA AGCAGAAGGAGAACAAGCCA GGAAAACCCCGAAAACGCAAG AAGCTTGACAGTGAGGAGGAA TTTGGCTCTGAGCGAGATGAG TACCGGGAGAAGTCAGAGAGT GGAGCAGCGAATATGGAACT GGACCAGGTCGGAAACGGAG GCGGAAGCACAGGG (SEQ ID NO: 270)
CTP87B	Homo sapiens tetratricopeptide repeat domain 3 (TTC3	XM_009760	AAGCTTAACGAGGCATGTGAA AATTATGAGCAGAGAAAACTC AAGGGCTCAGAAGAGACCAG GGATCTGGAAGAAAAATTGAA AAGGAACTTAGAAGAAAAACAA GATCTCAAAGACAGAATTAGA TTGGTTCCTTGAAGACTTGGA AAAGGAAATCAAGAAATGGCA ACAGGAG (SEQ ID NO: 271)

CTP88A	Rattus norvegicus ribosomal protein L31 (Rpl31	NM_022506	AAGCTTAACGAGGATGAAGAT TCACCAAACAAGCTCTACACG CTGGTTACCTACGTACCTGTC ACCACTCTCAAAAATCTACAG ACTGTTAATGTGGATGAGAAC TAATCGCTGATTGTCAAATAAA GGTATAAAACTGCTCCATG (SEQ ID NO: 272)
CTP89B	Homo sapiens genomic DNA, chromosome 8q23, clone: KB1935H12	AP003473	CTAAAGGGCCAGATAGTAGCT GTGGGCTGGGGTCTCAAACT GTGTTGCCCACTACTCAACTC TGCCATTGTAATGTGAAAGTA GTCACAGACAAAATATAAAGA AATGAGTGTGACTGTGTTCCA ATAAAACTTTATTTACAAAAGC ATTCAGTGGGCTGGATTTGGC TTTTGGGCCATAATTAAATCCC CTCTGGTAAAATAATCACTATT TTAGCTGGATCATGAGTACGT GGAAGCTT (SEQ ID NO: 273)
CTP90A	Homo sapiens clone 24800	AF070622	ACAGGTTTCATCTGAATACATA TITATTAGATAAATATTAGAGG TTGTCACATCATCTAACTACAT ACAGCTTTGCAAGACTAGAAA TCACAATTAGTTTTTTGACCAG TTTAAAGTATGAAATGATTGCA TTGTACATACGATGTACAAAG ACGATGATGGTTTCTGTGGGA GTTACTTCAGGCTGCACTGGT GGGAAGCTT (SEQ ID NO: 274)
CTP92A	No significant match		GCACTAAATTCAAACCAATGA CCTCCCATGTTCTAATTCTGAT TGTTTAATCCAACTGGGAGGG TAAACGGGAGACTCTTTGGCC TGTCAGTGACAAAATGGTTTG TAAAAAAGAAAAAAATAAATACG ATATACAAGTAAGTATAACTAG CACTCAAGCTT (SEQ ID NO: 275)
CTP92C	Human DNA sequence from clone RP4-580N22 on chromosome 1q42.2-44	AL133286	GGGGTGTTGAAGAGCCTTGTT TTGTCATATTACCAGAGTTGGT TTTCTGGTTCCTTCTCATTTGG GTAGGCTCTGTCAGAGAGAAG GTCTAGGGCTGAAGGCTGTTG TTCAGATTCTTTTGTCCCAAGT GGTGTTCCCTTGATGTAGCAC TCAAGCTT (SEQ ID NO: 276)

CTP93F	clone RP1-211D12 on chromosome 20q12-13.2	Z93016	AAGCTTGAGTGCTGTTGCTGA TGTACAACTTAAAAATGTGAAG TTTGTAGCTTTAACTTTTTGTA ATAAAAACTAATAACACTGGCT TAAGTGCTGACTTGAAATGCT ATTTTATAAAGTTTGGATGTAA ATAATCAATCGAGGTCAGCAG TTTGTATATGTAGGAGACATA GCTTCCTCCCTGCACCCCCCA TTTTTTTAAAATTTGAGGTGCT TCCTGTGTGTTTTTATGTTAGA ATTGTTCTCCCTCCTTCCTACA CGTGGTCACCTTTGTTTTAAAT AAACTGTCCTTTGG (SEQ ID NO: 277)
CTP94B	Homo sapiens clathrin, heavy polypeptide (Hc) (CLTC)	NM_008305	AAGCTTGAGTGCTGTATCCTG TGCTTTTTCTGTGGGACCATT CCATTCAGGAGCAAAGAGCAC CATGATTCCAATCTTGTGTGT GTTTACTAACCCTTCCCTGAG GTTTGTGTATGTTGGATATTGT GGTGTTTTAGATCACTGAGTG TACAGAAGAGAGAAATTCAAA CAAAATATTGCTGTTCTTCAGT TTTGTTTGTGGAATTTGAAATT ACTCAAATTTAAAATAAATTAC TGGACTGTGG (SEQ ID NO: 278)
CTP99A	No significant match		AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTATATA GCACTTAAAAAAACCATTTGTTA CATTAAATGTCGAACTCAAACT TTTAAAGAGTATAGAGAACTAC AAAATGGAAAAAGGAAGCAGA TATACGCTTTATGAGGAAATTG TGTTAATGATCTCTCCTCTAAA AAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCGTCC TTAAAACCACTGGTCGCTGAC ATTATGCCGAAGCTT (SEQ ID NO: 279)

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CTP100A	COX15 (yeast) homolog, cytochrome c oxidase assembly protein, clone MGC:8634	BC002382	AACATATAAAAACATTTATTCA CTAGGAATAATTGTGGCAGAC ACAATCCAGTGAAAGCAGCTC AATCCTGCTCAGTTAGGCTAG TTGAAGAACCATACTTTAAAAA AAGAAAGGAAGACAGGCAAAC AAGTGTTTTACAGGAGCAACA GACTTCAAGGTCACCCCCACA AGACACCCTGCACAGCAGGG ACGGGGACAGGGAGGATGAC CTCTTAGGGCCTGTGCCTTCG CAGAGGTGCTCTGGCGGATGG GTGTGGTCTTCTTGGGTGTCT CCTCTTCTGTCATCTATGCCG AAGCTT (SEQ ID NO: 280)
CTP103JJ	No significant match		AAGCTTCGGCATAGTTACTGT TTGATTTTAAGTTTTATATAGT TCTTAGTTTTGAAGAAATCCTT CAAGAACAGTTTCTCTAAAGA GCATGTTTTAATTAAATGCTAA TTAATTACCTTTCTTAGTTTTC CAATTTAGTAGGCCACTTTCAA TGTCTATTAAAGGGCCACTTTCAA TGTCTATTAAAGTGAAATAAAC CTTCTGAACTTAAACATTTTA AATCGATTAAAAAATTGTGTCAA AAT (SEQ ID NO: 281)
CTP104I	No significant match		AAGCTTTTTTTTTTCAAAACG GATTTGTAAAAACTGTATTTCT TACACTGTGCACAAACCTTTTA TACTAAATAAATATCAAACTAC ATTCTTCAGAAAGATGTTTCTA GTATTTTTCTTAGGTCACTTCC ATATGTAGTATGTACAGTGAG ACCACTTTTTAAAAAAGCAATGA CTTAGGCAAACCAACCCTAAT GGTTTGTTAGACCATTTCCCT GTTTTTAATTAAAAATCATAGG GTTGTGCTTCTGTATAAAGTTT GTACATTTCACAATGTAAAATA CTGACATT (SEQ ID NO: 282)

CTP109P	No significant match	ATGCAACCACAGGAATTTAT TGAACATTTTCACAAGTGATTT CATTAAAGGAAGGCTTTTTCG TGCCTATATTGGTTACCATCAC TTTTGCCCCTATCACAATCTCA TGGTGTAGTCCTTGCATGTAG CAGGAACTCAACAAATGTCTG CTAAATTGACAGATGGAGCCC CAGACGACCTAAAACTTGCAC TTTAGAAGCACTTACTTCATCC TGAGCTATTATGAATAAGGAA CTCAAGTGACTGTTAAAAGCA TTCTACTGATGAGTTGGTAAT GTTCTAAAGCAACATATCTCAA AGGAAAGGATATTGAGTTTGT CTCCACCATAAAATCCTATTTT TAAACAAAGGTACTACTTAAAA ATGGTCTTCCAAAGGCCTCAG CAGAGGTTCTAAAGAGATGTG ACAATATGCCGAAGCTT (SEQ ID NO: 283)
CTP110A	No significant match	AACATATAAAAACATTTATTCA CTAGGAATAATTGTGGCAGAC ACAATCCAGTGAAAGCAGCTC AATCCTGCTCAGTTAGGCTAG TTGAAGAACCATACTTTAAAAA AAGAAAGGAAGACAGGCAAAC AAGTGTTTTACAGGAGCAACA GACTTCAAGGTCACCCCCACA AGACACCCTGCACAGCAGGG ACGGGGACAGGAGGATGAC CTCTTAGGGCCTGTGCCTTCG CAGAGGTGCTCGCGGGATGG GTGTGGTCTTCTTGGGTGTCT CCTCTTCTGTCATCTATGCCG AAGCTT (SEQ ID NO: 284)
CTP111A	No significant match	AAGCTTCGGCATAAACGATCC ATTCTCCTCGGCCTCCCAAAG TGCTAAGGTTCCAGGCGTGAA CCACCATGCCCAGCCTGTTCT TTTTTTTATCTCTAGGTGGTGC TCTCCAGCTGTAGTAGAAATA GCATTTGTATTGGATCTATTTT TTTAAATAGGGACTAAATACAG ACCATTTTGTTAGAGTGAAATG CCAAACAAGAACGAGATTTTT CTCTTGGCT (SEQ ID NO: 285)

CTP112B	Bos taurus peroxiredoxin 1 mRNA	AF305561	CTCAGTTCAAGTTTAATAGAAA CAACAAAAGATCAAAAGTGAT GCCTTGCTACTACTGTACATAT CAGTTGGCCTGCCCCATAGCA CACCTCAGACCATCCTCTCCA GAGGAAGAAAGGCTGGCCTC CCCAACCCCTGCAGGAAAGG GCGGTCTTGTCCCATACCACA TACCACATCTGCAGAGTCTAA AGTCTTGTTATAAGCATGACAA TAGTACAAAAAAAAGATTCTGTT TTCATGGATCCCCCACTACAG CCCGGACCTAAAATGGCGAG GCGCTCACTTCTGCTTAGAGA AATATTCTTTGCTCTTCTGGAC ATCAGGCTTGATGGTATCACT GCCAGGCTTCCAGCCAGCTG GGCACACTTCCCCATGCTTGT CAGTAAACTGGAAGGCCTGAA CCAGTCGCAGTGTCTCATCCA CAGAGCGACCAACAGGAAGG TCGTTTACAGTGATATGCCGA AGCTT (SEQ ID NO: 286)
CTP113A	Bos taurus ribosomal protein L30 mRNA	AF063243	CTAGTTAGAGTCAGATGTTTAT TTAAAAATCTGATCCACTAAAA CTTAGCGTTTTCCACCAACTC GGGGTGCGGAAACCTTCACA GGCTTCACAATCTTTTGCTTAG GTGCTGCCTTTGTGGGAGCCT TAGCAGCAGCCATTGCTGTCT TTTTAGATGCTTGCTTAGCCTT TTTTGCTTCCTTGGCAGCCCT GATGGCCTGTTCTCGTTGAGC CTTCCTAACTTCAGGTTTCTGA TTCCTCTTAGCCATTATATCAG CAAGAGATGCCCCAGTGATGG CCCTCTGGAATTTGACTGCAC GGCGGGTTCTTTTTCTTCTGAA TTTCTTCCGACTGTCCCTTTTT GTGCTTTCTTCTGTAGAGGAC AGTCCAGTTGATATGCCGAAG CTT (SEQ ID NO: 287)

CTP115B	Homo sapiens chromosome 17, clone hRPK.227_G_15	AC005899	CTAAGGTGATATAGAAGTGGA CTAAGGGAGAGCCAAAGTTGG CAATCCCATTAATCTTACAACT TCCTAAATTATGGCAATCACAA TGCCTGCCTGAATGAATATAG CAAGTCCTAAAGGATGTCTTC TGTGAGGGCAGATGGAAGTTT ACTTCAACTCAAC
CTP116A	No significant match		AAAAGAGCATACTTATCAGTT GAATGGGGATAGAGGTTTTAG ATATTTTCCAAAATATTTATAAA ACACTTCATTGTTGAGAAATCA CTTACAGAATGGTGGCTATCA AACAAATAATTATAAATTTTTAA AGCACAAGTCACATGTTTTGT AACTCCTGTGTGAATTTATTTT AGCTGTGACATTTAATTGAAAA CATCAGATATGTTTTGGAAAA GTCTTAATTTGAGAACAACTGA AGGAAGTTAATCCAGAATCTA TATGTAGTTAGCTATTAATTGAT GATGCTTTATTGACAGTATATT GCTAATATATTTCTTCATGAAA TCTGAAGTTAAATAGTTCGTT GTGGAATAGTTCACTAAC ATTTCCCTTACGAAGTTCAATA AACCAGCTTTGCCATAAAAAA AAAAGCTT (SEQ ID NO: 289)
CTP117B	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN (RBP-J KAPPA) (M. musculus) (LOC82995),	XM_017740	AAGCTTTTTTTTTTAAGCTGA TGTCTTATGACTTTTTATGAGT CGAAATTGTTTTGATTTCAGCA AGTCAAATCTTGTAAAGGCCC GCGTATTTTTTTTAAGATTATA TGAAGTCTGTGCAAAAGCTTT AAAAAGAAATGCCTCTGCCTT GCCTGCAATACATGCAATGTA CGTTAACTTCGTCTCTGTCCT CAGACACTGTCCGTATTTACTT CCTTGTTTTCCTTTTTCTTAAT (SEQ ID NO: 290)

CTP119J	Homo sapiens SPR-2 mRNA for GT box binding protein	X68560 S52144	CAAAAGAAAAAAAATAGTGTTT TATTAACTACCACACTGTTATA ATACACTTTAAACGTACAATAA GGTAGCCTTTAAATTTGAGGT GGTCTTAAGAATAACAAATGA ACAGAATTCCAAATTTTTGAAA TAGGTGAACTGCTGTAGTTAT AGGTATACATTTAGGAAAATTG TATAGCTTTTACAAGACCAGC AATGAAACTTTATTTTGTACAT TTTTTTAATAATTGAAAATAAAAAAAAAA
CTP121D	Human ribosomal protein L23a	· U43701	AAGCTTCATTCCGACGACCCA AGACCCTGCGTCTCCGAAGG CAGCCNAAATATCCTCGAAAG AGCGCCCCCAGGAGAAACAA GCTTGATCACTATGCCATCAT CAAGTTCCCCTTAACTACTGA GTCAGCCATGAAGAAAATAGA AGACAACAACACACTTGTGTT CATTGTGGATGTCAAGGCCAA TAAGCACCAGATCAAACAGGC TGTGAAGAAGACTCTATGACAT TGATGTGGCCAAGGTCAACAC CTTGATCAGGCCTGATGGAGA GAAGAAAGCATATGTTCGACT GGCTCCTGACTATGATGCTTT GGATGTTGCCAACAAAATTGG GATCATCTAAACTGAGTCCAG CCGGCTATAAATCTAAATATAA ATTTTTTCACCAT (SEQ ID NO: 292)

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CTP122I	Human mRNA for KIAA0033 gene	D26067	AAGCTTTTTTTTTTTGGGACTG CTTTTGATTAATGCAGTTATCC AATTTAAGTGTTTTTTACTTTAA CTCAAAGTAAAAAGAAATTCTC ACATGGTAACTACTCTATTTAA ATGGTCCTGGAAACATTAAAC AGCTTTCTGCTGCTTGCTTAAT GGTAATACCTTTGATTTCTTGA TTCTAGGACATAGCTGATTTAT TAGGTAAAGTACTCTGTCAATT TTACCTTCACCCAAGACTGTC ATGTTTAAAATACTTTAGCTGT GGGAGAAATCCTTGTCTGTTT TTATTGTGAGAGGAATGGTCA TCCTCAAAGTCTGTTTCTACTA CATAATGTGGACTAATTATTTT TTCTATCACAGTATTAACAAAT GGATTTATTGTAAAATACAAAGA AGATATTAATATATCTTA TGTC (SEQ ID NO: 293)
CTP124B	No significant match		ATGGCAAAGCTGGTTTATTGA ACTTCGTAAGGGAAATGTTAC AGTGACACTATTCCACAACGA AATTATTTAACTTCAGATTTCA TGAAGAAATATATTAGCAATAT ACTGTCAATAAAGCATCATCAT TAATAGCTAACTACATATAGAT TCTGGATTAACTTCCTTCAGTT GTTCTCAAATTAAGACTTTTCC AAAACATATCTGATGTTTTCAA TTAAATGTCACAGGAGTTACAAAA CATGTGACTTGTGCTTTAAAAA TTATAATTATTTGTTTGATAG CCACCATTCTGTAAGTGATTC TCAACAATGAAGTGTTTTATAA ATATTTTGGAAAATTATAAA ATATTTTGGAAAATATCTAAAA CCTCTATCCCCATTCAACTGAT AAGTATGCTCTTTTAAAAAAAAAA

CTP126A	No significant match	,	AAAGAAAGTAATTATGGAACTA GATTTTTAACATTGTAAAATAC TAAATGATCCTTCAGTTGTAAG TTGATATATATTTGTAACCTTT GTGAAATTGTATCCTTATGAAA ATACCACTTTTGTGGAAGAGA GAATCCAACTATGTAATATTTA ATTAAAACAATCCATGTTAACC CTATCCCTGCTCAATTAAACA GTGTATATAGGTCTAATAATAG CTCTGGAGCAACTTTTATCAT GAGTCAAATATATTAAACACAT TGATGTCTTCTTGGTATATCTG AAAACAAGAGGGTAGAAGTCCT GTTGAGAGTCTTTAAAATAAC TATTTTTACAAATGTAAAAAAA AAAAGCTT (SEQ ID NO: 295)
CTP129A	Homo sapiens, Similar to cadherin 1, type 1, E- cadherin (epithelial), clone MGC:1151	BC007583	AAGCTTCATTCCGACGACCCA AGACCCTGCGTCTCCGAAGG CAGCCGAAATATCCTCGAAAG AGCGCCCCCAGGAGAAACAA GCTTGATCACTATGCCATCAT CAAGTTCCCCTTAACTACTACTGA GTCAGCCATGAAGAAAATAGA AGACAACAACACACTTGTGTT CATTGTGGATGTCAAGGCCAA TAAGCACCAGATCAAACAGGC TGTGAAGAAGACTCTATGACAT TGATGTGGCCAAGGTCAACAC CTTGATCAGGCCTGATGGAGA GAAGAAAGCATATGTTCGACT GGCTCCTGACTATGATGCTTT GGATGTTGCCAACAAAATTGG GATCATCTAAACTGAGTCCAG CCGGCTATAAATCTAAATATAA ATTTTTTCACCAT (SEQ ID NO: 296)
CTP131B	Homo sapiens similar to sperm autoantigenic protein 17	XM_006087	AAGCTTCATTCCGGGGACACA TAGCCAGAGAGGAGGAGGCAAAG AAAATGAAAACAAATAGTCTTC AAAATGAGGAAAAAGAGGAAA ACAAGTGAGGACACTGGTTTT ACCTCCAGGAAACATGAAAAA TAATCCAAATCCATCAACCTTC TTATTAATGTCATTTCTTCCTG AGGAAGGAAGATTTGATGTTG TGAAATAACATTCGTTACTGTT GTG (SEQ ID NO: 297)

CTP133B	No significant match		CCAAAAAGAGCCATGCCCAGA GGGAAAGTTGGAAACGAAAGC CAAGTTTTCATTTAAAAGGAAA CANTAAAGAGGTTAGCCAGAG AAACTTGAACCAAAGAAAAGA
CTP134A	No significant match		CCAAAAAGAGCCATGCCCAGA GGGAAAGTTGGAAACGAAAGC CAAGTTTTCATTTAAAAGGAAA CATTAAAGAGGTTAGCCAGAG AAACTTGAACCAAAGAAAAGA
CTP135A	Homo sapiens cDNA FLJ11508 fis, clone HEMBA1002162	AK021570	CCATCAAATGTAATTTATTTAA ATAACAATTCAATTGCATGTTA AGTAAACCAGTTGTAGCAATA TAAAAATACAGAATTTTGAGAA AATCTGGCAAATTAAACCTGTA TCTAAATGCAGCATATTCTGTG ATACTACGGAATGAAGCTT (SEQ ID NO: 300)
CTP143B	No significant match		AAGATTTCAAAGAGTGAGCAA GTGCATTAGCAGGGCAGAGA GAGAGGCAGCAGCAGACTCC CTGCTGAGCTGGGAGCCAACT TGGGACTCGATGCCGGGACC CCAGGATCATTACCCGAAGCT T (SEQ ID NO: 301)
CTP144B	No significant match		GGGTAAATCCGTCCAGTTTAC TGTAAATATGCCTTTGACAAAC TGGTAACTCATGTCCCATCCC AGTCCCGAGTACTGGACCAG GGAAACTCCAGCCACAGTTGA GGGAAGGCCACCTGTTGGCT CTGGGGCAGCAGGTCATCCA GTGGGCTTCAGGAGTCACCA GGCCTCTGACCAGTTCCTCCC CACCAAGCAGTTTCAGAGTTG TCCGCCAAGTCTATTTCACAC CTCTCGTGTATGCCGAAGCTT (SEQ ID NO: 302)

CTP145B	No significant match		GGACTGATAATAATAGGATTTT ATTTCTAAAATTTATCTTAGAG CTTTCAAAGAGTATAACACACA GATCTTTACCACCACACCCCC CTTGCCTATACAGGAAACAAC CAAGTTGTGAGAACATTTATCA TGCACAGACACATCAGGGCTT GCAGGTGCTACACAGGAATCA CAAATGCTGTTCCACATCATG TCTTCTGTTATGCCGAAGCTT (SEQ ID NO: 303)
CTP148B	Homo sapiens serine- threonine protein kinase (MNBH)	AF108830	AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTATATA GCACTTAAAAAAACCATTTGTTA CATTAAATGTCGAACTCAAACT TTTAAAGAGTATAGAGAACTAC AAAATGGAAAAAGGAAGCAGA TATACGCTTTATGAGGAAATTG TGTTAATGATCTCTCCTCTAAA AAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCGTCC TTAAAACCACTGGTCGCTGAC ATTATGCCGAAGCTT (SEQ ID NO: 304)
CTP149B	No significant match		AGGAAGAATAAAAACATATAAA AACATTTATTCACTAGGAATAA TTGTGGCAGACACAATCCAGT GAAAGCAGCTCAATCCTGCTC AGTTAGGCTAGTTGAAGAACC ATACTTTAAAAAAAAGAAAGGAA GACAGGCAAACAAGTGTTTTA CAGGAGCAACAAGACTCCAAGG TCACCCCCACAAGACACCCTG CACAGCAGGGACAGGGACAG GGAGGATGACCTCTTAGGGC CTGTGCCTTCGCAGAGGTGCT CGGCGGATGGTTCTCTCTCT CTTGGGTGTCTCCTCTTCTGT CATCTATGCCGAAGCTT [SEQ ID NO: 305]

CTP150A	No significant match		AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTACATA GCACTTAAAAAACCATTTGTTA CATTAAATGTCGAACTCAAACT TTTAAAGAGTATAGAGAACTAC AAAATGGAAAAAGGAAGCAGA TATACGCTTTATGAGGAAATTG TGTTAATGATCTCTCCTCTAAA AAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCGTCC TTAAAACCACTGGTCGCTGAC ATTATGCCGAAGCTT (SEQ ID NO: 306)
CTP150C	Canis familiaris mitochondrion	CFU96639	AGGATCCTCATCAATAAATAG ATACATACAAGAATAGCCAGA CTACATCAACAAAGTGTCAATA TCATGCAGCGGCTTCAAATCC GAAGTGGTGGTTTGATGTGAA GTGGTAGTATAGCTGTCGGAG GAAGCACACGATGAGGAATGT AGAGCCAATAATTACGTGTAA TCCGTGAAATCCAGTGGCTAT AAAAAAGGTAGATCCGTATAC CCCATCGGAGATTGTAAAAAGA TGTCTCATAGTATGCCGAAGC TT (SEQ ID NO: 307)
CTP154A	No significant match		AGCATATGTAAGATCTCTGGC TTGTAGAAGACAAGTTTATATA GCACTTAAAAAAACCATTTGTTA CATTAAATGTCGAACTCAAACT TTTAAAGAGTATAGAGAACTAC AAAATGGAAAAAGGAAGCAGA TATACGCTTTATGAGGAAATTG TGTTAATGATCTCTCCTCTAAA AAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCGTCC TTAAAAACCACTGGTCGCTGAC ATTATGCCGAAGCTT (SEQ ID NO: 308)
CTP156J	Human DNA sequence from clone RP5-975D15 on chromosome 1p31.3-32.2	AL136120	AAGCTTCGGGTAACCACTGCT AATAACTAAAATACTCTAACTT GGAATAATCGACTCCGACGTC TTTATTTTTCCAAGTTGCCTTT TCTTTAAAACACCTTTTTCTGA TTTAATACGGAATAACGGTCTT CTTTTCCACTCGATAACTATGG TGTCCTCTTGGGTTACTGCTT AAGAAAAGTTGGTTTGGGCCA TTTCG (SEQ ID NO: 309)

CTP161B	Canis familiaris TCTA gene, AMT gene, DAG1 gene and	AJ012166	AAGCTTTTTTTTTTTGAAGATA CAAGTTAGAGTTCAATCAGTA CCAAAGGTAAGGAAAAATTAA CTCTATGTACACAGTCGAGTT TTATCCTGCTTAAAATTGTCAA GTAGAGAAAAATCTGAAAATAT TTATGAAAAAGCTATTCTCATG CTGGCAGCAATGGTTAAAATA AAGATATTTCCTTTATTAAAAA AGAAAAAGCCTAAAAAACAAC TTTAAATAATCAAGTTGCTGTG AAGTGAAACTGAAGTTAAAAGTTC TCTATATGTGTGTTTTACTTTA
CIPIOID	BSN gene	7,0012100	AGCAAATTAGACATAGTGAAT AAAATTTGAATTTTCAGACAAA TTATTTGCTTTTTTTTTT
CTP164A	No significant match		AAGCTTCGGCATACGGTGTGA GGTTACAGTCCAGTTTTGTGT GCTTTACTACACGGTTTGGTT ACAGGACTTCTGTGCATTGTA AAACATAAACAGCATGGAAAA GGTTAAATACCTGTGTGCAGA TTGTAAGATCTGGTCCGGACT TGCTGTGTATATTGTAACGTTA AGTGAAAAAGAACCCCCCTTT GTATCATAGTCATGCGGTCTT ATGTATGATAAACAGTTGAATA ATTTGTCCTCAGACTCTTTACT ATGCTTTTTTAAAATTAAGAAA AATGTAAATATAGTAAAAATCT TCCTATGCAATTAACCTGG (SEQ ID NO: 311)

CTP178B	Homo sapiens mRNA for KIAA1524 protein	AB040957	AATAAGGCTTCATCTAGATTTT TTTCTGTGAACTGAAGTTGGT CAAGGATTGTAGGCAGCAGAA GGCTCACAAAACGGTCAGTTG AGGAACAGTTAGCAGTATCTG CAACATCCTCAAATATTTCCTT GAACAACTCTAAGGCTAGAAG AGAACAGTTTTCTGATCTGTC CAGAGGTTGGTTTGACCAACG CAGTAGAGCCACAGTAGGTTC TAAACATTTAGAACGGCTTCC CAGAATGGTGTTGCCAGATGG AGACTGTTCAAATATCATCTGA GTGAGCACGTGGCGCAGCTG AGTCACTGAACAGAAGGCAAG AAGTAATTCTAAAACCTTTGAA GAAGAATCAGGATCCTTTCCA TTGAGAAGACCTAATACTTGA CTAAGACATGAAGAAAAGTGC TCATACCTGGTAAGCTT (SEQ ID NO: 312)
CTP179K	No significant match		AAGCTTACCAGGTAGAGGGAC TGTTGGAGGTATGGACGCACA CAGGAGGGCCAGGCCA
CTP185C	No significant match		CAGCGAAGAGGCATTAAAGAT TCATGCCATAAGTTTATTTACA AACATGTTGTGTATGTTGAATT CAAGAGATTGATCCATTTTTCA GAGACTGCACCTCTTAAAATG TTCCTTTTCACATCTGTTTAGT GGATCAAAAGCTT (SEQ ID NO: 314)
CTP197A	No significant match		ATGGTGTGTGTGTGGGTTCAA ATAGTTTATTCACCTCTGTAGT GGAAAAACAAGGAGAAATAAA ATCTGCTTACAATGGCCAAAA TTTATGGAGAAGCCCTAAAGT TGCTTTCCCCAAATCACAAATC TGATTCAAGAGAAGGAAAAAA ATGATGAAAAACATCTCATCAC ACAAAACTCAGTGTGGTGTCT CTGATAGTCATCAGCAGCAG AAGCTT (SEQ ID NO: 315)

CTP201B	Homo sapiens, exostoses (multiple) 1, clone MGC:2129	BC001174	ATCATTTCAAAAATAATCATTT AATGTTCCATAATTAAACTGTA CACGACCTAGTCTTGGGACAT AGAAGCCAGTGAGGTGAG
CTP202C	No significant match		AGAAAAAAATTGATAATTAGG TGCAGATAGAAAATTGAATTA GAAGAGGTTAATTCAAGTGAT CAGCCTGAAAGTTCAGCTTCA TTAGCTTTGTGGTAAATCCAC CACTTCAGATAGTAACTAAAGT AAATTTTAAATTTCATAAGAAT AAAGTAATCCCTGAAAAGAATT CACTTTTTTCCCAGAAGAAGC TTATAAATTAAAAAAAAAA
CTP205D	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN	XM_011187	ATTAAGAAAAAGGAAAGCAAG GAAGTAAATACGGACAGTGTC TGAGAACAGAGACGAAGTTAA CGTACATTGCATGTATTGCAG GCAAGGCAGAGGCATTTCTTT TTAAAGCTTTTGCACAGACTTC ATATAATCTTAAAAAAAATACG CGGGCCTTTACAAGATTTGAC TTGCTGAAATCAAAACAATTTC CACTCATAAAAAGTCATAAGA CATCAGCTT (SEQ ID NO: 318)
CTP206A	Homo sapiens fatty acid desaturase 1 (FADS1)	NM_013402	CAGGCTGGTGTTATAGGTGAA GATAGGCATCTCTTACAGATG GGGGTGGGGGGCTGTTGTTAC TGGTGAAGATAGGCATCTAGC CAGAGCTGCCCAGACTCCTTC AGTGAGTAGATAATGTCGGCG AAGGCTGAGAGCAGGGGCTT GGACTGGTACTCTATGCCATG CTTGGCACACAGGGACTGCAC CAGGGGAGCCACTTTATGGTA ATTGTGTCGAGGCATCGTAAG CTT (SEQ ID NO: 319)

CTP208B	No significant match		CTAGAGGAAGTGCTTTTTATTT TTAGATCAACCAAACATATTTA ATATAAAAACCTTTTAATATAC AAACTGTAATCACAATTGCATC CACGTAGCAGCGAGGGAATG GGGTGTTGCAGGAAGCTT (SEQ ID NO: 320)
CTP215B	No significant match		AAGCTTAGAGGCAGTAAACAG GAGCGTCCCCAAGAAAAAGAG GAAATTCTCTTCTAAGGAGGA GCCACTTAGCAGTGGACCTGA AGAGGCTGCTGGCAACAAGA GCGGCAGCTCCAAGAAAAAGA AAAAGCTCCAGAAGCTATCCC AGGAAGATTAGAATGGACATT TTACCAGGTGGGGCAAACCCA CATGATTCCAAAACCACCCTT ATATCCCAATAAAAACAAATTC ACAGG (SEQ ID NO: 321)
CTP216A	Canis familiaris heat-shock protein (HSP27)	U19368	AGGCAGTTGCTTTGAACTTTAT TTGAGAAAAAACAAAAGGTAAA TGTATCAAAAAGAGCATACAGG TTAGTGTGCAGGGACGGTCAG TGATGGCTACTGAGGTGAGG
CTP222D	No significant match		AAGCTTACCAGGTGAAGAGTG GGGTTGTCATGACCTTGGCTA TGACGCCCAGCATTTCGAGGT GGCTCCCTCTATTCTTTACTTT GGGCATCATAGAAAACGTGTC TCTGGGGGATTAATCTTAGAG AAAAATAAAGCCTTTCTGCTG(SEQ ID NO: 323)
СТР300В	Homo sapiens utrophin (homologous to dystrophin) (UTRN),	NM_007124	CCAAGGTTCACCAAGCTTTCA ACAAGCACTGTTCTTCTAATAA TTCCTGCCACAATATATTAATT TCTTGTAGCCTACTCCAACGT TCCTCTGTCCAACGGCACACT GCTGTCCAGCGTTCACCAAGC TT (SEQ ID NO: 324)

CTP304B	Homo sapiens unknown mRNA	XM_002211	AAGCTTAGCAGCACAGCACAC CAACATATACAAACACCGAGT GACTACAGTACATGCCGAGGT AAGAAAAGTACATTCGGGGAG ACTATCACTGACACTCAAGCC ATTITTATTTCCAATATGTTTTG CTTTCACCTTTCCCAGTGCCA AAAAAAAAAA
CTP306B	No significant match		AAGCTTCTGCTGGTATGGAAA GCCTTCAAGGAAGAGGGTAAT GAGGGGGAAGAAGTGCTGTG CCAAAGTGACAGCATTCAGTG AGGAATAAAGAAAGGAGCTCA GTGGTAGCAGGATGTTGAGCT TCCAAGAAAATCTGGTGGTGG TGAGAAAGTGGCTGCTGTGCA CTGCAAGGAAACAGAGCGATT AAAGAAAGAGAGATGTGACAGGG TAGGTGGAAGAGATAGCCAGA AGTTAGAAATGGGTTACACTG AAGAAGTAAATTATTTGATTAA ACAATAAGTAAATTATTTGATTAA ACAATAAGTAAATTATTTCT CCACTGTCTCAGAAGGGATTT GCAAGTATGG (SEQ ID NO: 326)
CTP308KK	No significant match		AAGCTTTCTCTGGATGAACAG TTAAATGGAACCTGGAAACCT CTTCCTGGGATTATTCCTTAAG CAAGGCAGTGTCAAAGGCAAC CCTCCCAGCAAGACTTCAGAA AACAGCTGGCAGAACTACAGG ATCTGGTGTCTGGTGTAAA ATACTCTCCTCCCTGTTCAAAT GATTCAGAACATGTGCAAAGT GTGCTAGCTTTCATCACATATA CATAACAGCATTATGTATCAAG TTACCCTGTTCAAACAAGGAG CAGGCTTCCTCTTTTTGACTTA AATGACATGAAGTGAGAAAAA AAATGAGAATAACCNTCNNGG GAATTATAGAGGGTTATAATTC TATCCCNACTATTTCAATAAAA GCCATCACGGG (SEQ ID NO: 327)

CTP309A	No significant match	AAGCTTTCTCTGGCTTTCCGA AGGTAAAACTGTTGCCGAAGT TGCTGCGTTACAAGAGCGTAT CCCAGAAACCATAAGGCTACA ACGCCGAAATTGGGAGCTACA TCAGTTTGAATCGATTCAAGAA GGTCATCGCTCAGGCCGTCC CAATACACTGACCTCAAACTAT CAGGCTCAAATCTTAGAGTGG GTCAACACAAGCCCACTCAAT GCAGAACAAATCCGAGTCAAA CTGCATGAAAAACACGGTGTG TCCGTGTCTGTTGAAACTCTT CGCAAGTTTTTGCGAGATTCA GGCATGGTCTTCAAACGCACC CGCCACAGCTTG (SEQ ID NO:
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Please substitute **Table 8** with **Table 8** amended as follows:

	Table 8			
Band #	Genbank Gene Name	Accession	Sequence	
CTP1D	No significant match		GACTGAGACCATTTATTCNAGA CACGCAGCTGACCAAGGAGTG AGGGAGGGACCAGGTGTGCA AGCTAATAAATAGAGGAGGGG GAGACTTCCTGGAGCTGTAGC CATTCAGTCTTCATTCTTCA GGCATGAAGGCATCTCTTTTCT GACCAAAGCTT (SEQ ID NO: 329)	
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATAT TAGTTTGCATTTTAGTGACAGG TGTAAGAGAAAAGGCCCCTTCT TCCCTTACTGGGACAAATCTA GAAATCTTACACAGATGTGCAA ATAAAGCTCGCGTGGTGTTC (SEQ ID NO: 330)	
СТР4В	No significant match		GAGCAGCAGTGAGCAAAACCC ACGAAGTTGTTTTAAGGTTACA GCTATGAATAAACATTGTCCAA ACAATGAAGATTTAGGGCTGA AGAACGAGCGTATGTCTACAG TCGAAGCTT (SEQ ID NO: 331)	
CTP7B	No significant match		CAGGTGCAAGAGGTTTGTTTG GGAGGTAATCCTAGAAACCAC AGAAGGGGGTGGGGATAGGA GGGATGGCAGGAAAACCAGTA AGAACTGTGTTATTGAGAAGG TTATCACTGTGGACAACTGGC ACAGAATACACTTCAGAGCTG TCGCCCTGAGGGACAATGACG CCAAGGTCTTTTTCTCTAAGTC CTGTTTCTTATAGGCCGAGGG TGGCTCCTGGGAGCAGTAACT GCCAACAGTCGAAGCTT (SEQ ID NO: 332)	

CTP8A	No significant match	AAGCTTGATTGCCCATACCTG AGCCATTGATATATTTGAAAAT TATGGCACAAATGGAAGAGAA CCACATTTGAAAAGCTTCCAG CCTTTCAACAGAAGATAACTCT TCTTGTTTTGCAGATTGAGCAG ATAATTTCTTTTGAAGGTGATA GTTTCCTAAATTGGATAAAACC GTGGCTGCCATTATATTCACA GAAAATAAAAT
CTP17G	No significant match	CATATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAGA GACATTCAACAGTAGTTAGAAT GGCCATCTCCCAACATTTTAAA AAAACTGCACCCCCCAATGGG TGAACAAAGTAAAGAGTAGTAA CCTAGAGTTCAGCTGAGTAAG CCACTGTGGAGCCTTAAGTGG TGAGGTCTTCCAATTTCAGAGT GATGTGTCTTCAACTTGTATCA TCATTTTAGCGGTAAAAGCTT (SEQ ID NO: 334)
CTP18B	No significant match	CCAAAGAAGTGTTTATTAACAT TTGGGGCCTCAGCGGGGCCA GAGAGGAAGTGGGTGCTAGA GGCTCCTGAGGCTCAGGGCAA GGCCTGCAAGACAGATCCCAT TGCTCAGGAGGCAGCCCAGAT TGCAAATGGAAGACAGG (SEQ ID NO: 335)
CTP25D	No significant match	AAGCTTGCACCATATATATAAC TCTTGGGCAGAGGGTCTGGCA TACATAAGTAGATACTCAGAAA TATCTGTTGGATTGTGTTGATT TAATTATTTTTGTGTTGCTTCTT TTAAAGATGAGCACTTTCTATT AGATATTTTTTTGATCAAAAAA AAGATATTTTTTTGATCATACA GATTTAAGCAGGATTTTTATTA ATTCGTTTCTCTTCCTGGTTGG (SEQ ID NO: 336)
CTP31A	No significant match	GGGGCAGATAAAAACACTTAA TGTAAAATTTACCCTCTCAGAA AAATTTCCAGTATGCTATACGG TATCACTAACTATAGTCACTAT AGTATACAGTAGATCCCTAGG ATTTATTCATGATGTACAGTCG AAGCTT (SEQ ID NO: 337)

CTP36A	No significant match	CAAGTTTTACCATTGTTTTAATT ATTGAAACAAAATTAACGTAAG TAGAATCATGTGCAACAGTGT CTCTAACATATGGAAGAGGTA AATATGAATTTTATACAATAAG GTATATTATCCACTGTAACAAA TTTCCAATAATTTGGCATTTAT CTTTCACAAAATGTCTCCCAAA TTCTAAGCAAAATGTCTCCCAAA TTCTAAGCAAAGTATGCAAATT GGAGATTAACTCTTAACAGGC ATAATTATCTTCTTATCCAGTTT TTCTGAAGAGACTGAAGAGTT CAGGTCTGACCAAAGCTT (SEQ ID NO: 338)
CTP47G	No significant match	AAGCTTGCACCATACTCCTCCT CTACATATGCTCCCAAATTACC TTCTAAAAAGGCTGTATTAATT TACTTTCACCAGTAGTATTATG AGAGTGCCCATGTCCCTTAGC CTTTTAAAATTCACTATGAGCA ATCTTTAAATCATGTACTAAAT CTTATAGGCAAAGAATAGGGC CTTGCCCCTGCCCCTGTT (SEQ ID NO: 339)
CTP50A	No significant match	ATTCCTTTTCCAAGGACCTCTC TTCTATGTGATCACTGAGTAAG TTCAGTCACTCCCATCATCTCT AGATTGGAGATTTCCAAATTTA TGGCCTTTCCTAACTTTGAAGT CCTTATTTCTAACTGCCTACTA AGCTT (SEQ ID NO: 340)
CTP52B	No significant match	AAGCTTAGTAGGCAATAATAGA GAAGTAGAAATTGAATGTGGA ACATTAACCATTAAAAATCATA CTTTTGAATGTGCTGAGGTCAT GAATTGTTTTTACCTTCTTTGT AATTTGTGTTTTTCAGATTTTCT GTAGTTAGCATATATTCTATAA TCAGAAAAAGATGCTTCAAGTT TTTTGCAGATTTCACAGAATTT
CTP53A	No significant match	AAACAAAATTCTGTGAAATCTG CAAAAAACTTGAAGCATCTTTT TCTGATTATAGAATATCTGCTA ACTACAGAAAATCTGAAAAAAA CAAATTACAAAGAAGATAAAAA CAATTCATGACCTCAGCACATT CAAAAGTATGATTTTTAATGGT TAATGTTCCACATTCAATTTCT ACTTCTCTATTATTGCCTACTA AGCTT (SEQ ID NO: 342)

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CTP58A	No significant match	AATTGTCACGAACAGGGCTGA CTGACACTGCAGTGTGTCCTT GTTTGTTGATCCCTGATCTAGG CCTCGGCTTTTCAAACTGCAG TTGATCAAACTGGGATATGCTT CGGCTGAATCTGCTCTCTGGT GCTTCTCTTTAATCGTTTTCTC CTTAAATGGGTTACTTTCTTAC TAGGAAAAAAAAAA
CTP62A	No significant match	AAGCTTCGACTGTCGCATCAA TGAATGTTTTAAGTAATAACTT TGCTGGTTATCAGCTTGATGG TGCATTAATTTTATGGCTCATT TCCTTTATTTTGACCATTGTCG GATTCTTCATTTTATATTGGAC GATCCCCAATCGAACGGTACC AATTTTTCAGCTGTGATTGCG GCATGTTTCAACGCGACCGTT TTTGAAATTTTAAAACATTTATT TGGCTGGGTCATGAGTAATTT CACCAGCTATGAAATCGTTTAT GGTGCTTTTGCAGCAGTTCCT ATTTTTCTACTTTGGATCTATCT GTCTTGGAATATCATTTTATTG GGTGTAGAAGTGAGTTATCA CTCACCGCCTTCCATTCTGGT (SEQ ID NO: 344)
СТР63А	No significant match	AGAATCAAGCCACCAGGTGTT TATTTTTGCACTATAAATAGAG TTCCCTAGTCCCATTTTGTTAC ATAATATATGAGATAACAGAGA ACCTAAAATTCATTTGGTGAAA ATCAAGTGTGTAGTATACCTAA ATACCAATGAGCTAGTAAGACT TGTAAGGCACTGAAGCTAAGG CTAACAGCAACAGAGTCCTTTA TGAAAATAATTTCAGAACCACA ACGCATTCTCTGATGGTGCATT CCCCTGGGACAGTCGAAGCTT (SEQ ID NO: 345)

CTP64B	No significant match	CATCGCAGACATTTATTTTAGT TTTGTTAATTTCAAATATTCATT AACCTCTTGTATCAGATTTAAG GCAGAGAAAAGATACACGCCC CTGGTTAACTGAACCGGGGTT TAGATAGTGTAGTCCACCCTG GGTTCCACCAGGGAGACCTCA CCCGAGATGACAGGTCCGGTT GCTGGTGCACAGTCGAAGCTT (SEQ ID NO: 346)
CTP70A	No significant match	AAGCTTAGTAGGCACGCAATA AATAGGAGAATGAATCAGAGT CCTCCAACGCGTCCTCCCTAA TGTCCCTTTGAGCTGCCTCCT CTTCCACTCTGCCTCAGCTTGT CCATGTCACTTCGCTCCAGAG CAGCCGCAAGAGCATCTTAAC ACCTTGTGGCCTGAACTCTCT CCCATCCTCCACTGTACAGTG ATATGACTGAAACCTCATTTAA CCTTTTAGAACTACCAGGAGG AGGTTCCCAAGGATCCCAGG (SEQ ID NO: 347)
СТР72В	No significant match	CCATTTTTGCTCTTAAAGAGCA TCTTAAGTGAGÅGATCATGACA ATCTTTGGCCACTCCAGGTTTT CTCATCTACTACATGATCTGTT CCCAACAATAAGCCATTGAAAT TAAAGGTCTCCAGAAGTTTTAT CTGGGGTCTGTGATTGAAAAG AAGGAAAATGAGATGAG
CTP73B	No significant match	CCCATAAGAAACATCTTTAAAA CATTCAGAATACTCAGGATAAT CAAGGCTAATATTCCTATAAAT TCCTTACGTGTATTATGTACAT TCAGAAAAGTGTAAATTACTCA AATATTATACTCAAAACCCCTT ATAGTCTGCTAACTTGCATGTA GAAACATCTGAAGTAACATGCT GCCTACTAAGCTT (SEQ ID NO: 349)

CTP74A	No significant match	AAGCTTAGTAGGCATCAATTG GATCCTTTCCTATGTTGAAATG GAAGAATTAATGAGCTTACATT AATTAGTATTGTAATGTGTAAA GGAAGCCCAGCAAAATTTTT GAAAACTTGATGATCCCAACG TATTTACCATTGTATGTTAAAG CAAAATAAATCACCATTTTTTA (SEQ ID NO: 350)
CTP75C	No significant match	AAGCTTCTCAACGGCCTCCAC CTCCTTTCTGCCCTCACAGCC TCCTGGCTCTGGCCCAAAAAG TGATTCATTTGTAAATTATCAT GGTTTTCTGCATTAAAATGGCC ATTTCTGG (SEQ ID NO: 351)
CTP76B	No significant match	AAGCTTTTACCGCCATCTTGG CTCCTGTGGAGGCCTGCTGGG ACCAGGACTCCTAAAGCGACG ANTTTTTNTGGAAGGCTTTGGT CCAAGGCCATTTTTGCCGGCT ATAAACGGGGTCTCCGGAACC AAAGGGAGCACACAGCTCTTC TTAAAATTGAAGGTGTTTACGC CCGAGATGAAACAGAATTCTAT TTGGGCAAGAGATGCGCTTAT GTATATAAAGCAAAAGAACAAC ACAGTCACTCCTGGCGGCAAA CCAAACAAAACCAGNAGTCAT CTGGGGAAAAGTAACTCTGGG CCCATGGAAACAAGTGGCATG NGTTCCGTGCCAAATTCCGAA GCAATNTTCCTGCTAATGCCAT TGGACACAGAATCCGAGTGAT GCTGTACCCCTCANAGGATTT AAAACTAACGAANAANCAATAA ATAAATGTGGATTTGCGNTCTT NGG (SEQ ID NO: 352)
CTP77D	No significant match	CAATTGGTTTAGTTTTATTTCA AAATTGTACAAAATGGCCATAA GCGGCTATAAAAAATTTCGTTT TCGGAACACGTGGAAATTCAG AAAGAACAACAAAGCAGGTTA TCATTTCACAGTGTAATGGAAA AGCTCTCTCTGAGGCAGGAAT CACAACTCTTCCTTCTTCTCC CCAGTCTCTCGTGGTCTCCTT CCCGGAGCGCTCGAATGAAAC TGGTAAACCCCGATTCCGTCC GATCGC (SEQ ID NO: 353)

CTP79B	No significant match	CATATATATTCTTTTTTATTTCT TGTTATACCTTCCCAAAACAGA GACATTCAACAGTAGTTAGAAT GGCCATCTCCCAACATTTTAAA AAAACTGCACCCCCCAATGGG TGAACAAAGTAAAGAGTAGTAA CCTAGAGTTCAGCTGAGTAAG CCACTGTGGAGCCTTAAGTGG TGAGGTCTTCCAATTTCAGAGT GATGTGTCTTCAACTTGTATCA TCATTTTAGCGGTAAAAGCTT (SEQ ID NO: 354)
CTP81A	No significant match	CCAAAGAAGTGTTTATTAACAT TTGGGGCCTCAGCGGGGCCA GAGAGGAAGTGGGTGCTAGA GGCTCCTGAGGCTCAGGGCAA GGCCTGCAAGACAGATCCCAT TGCTCAGGAGGCAGCCCAGAT TGCAAATGGAAGACAGGCCAT GGTAGCGGTAAAAGCTT (SEQ ID NO: 355)
CTP92A	No significant match	GCACTAAATTCAAACCAATGAC CTCCCATGTTCTAATTCTGATT GTTTAATCCAACTGGGAGGGT AAACGGGAGACTCTTTGGCCT GTCAGTGACAAAATGGTTTGTA AAAAAGAAAAAAAATAAATACGAT ATACAAGTAAGTATAACTAGCA CTCAAGCTT (SEQ ID NO: 356)
CTP99A	No significant match	AGCATATGTAAGATCTCTGGCT TGTAGAAGACAAGTTTATATAG CACTTAAAAAACCATTTGTTAC ATTAAATGTCGAACTCAAACTT TTAAAGAGTATAGAGAACTACA AAATGGAAAAAGGAAGCAGAT ATACGCTTTATGAGGAAATTGT GTTAATGATCTCTCCTCTAAAA AAGGACTCTTCCCTATTATCAT AATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACA TTATGCCGAAGCTT (SEQ ID NO: 357)

CTP103JJ	No significant match	AAGCTTCGGCATAGTTACTGTT TGATTTTAAGTTTTATATAGTT CTTAGTTTTGAAGAAATCCTTC AAGAACAGTTTCTCTAAAGAGC ATGTTTTAATTAAATGCTAATTA ATTACCTTTCTTAGTTTTCCAAT TTAGTAGGCCACTTTCAATGTC TATTAAAGTGAAATAAACCTTC TGAACTTAAACATTTTTAAATC GATTAAAAATTGTGTCAAAAT (SEQ ID NO: 358)
CTP104I	No significant match	AAGCTTTTTTTTTTCAAAACG GATTTGTAAAAACTGTATTTCT TACACTGTGCACAAACCTTTTA TACTAAATAAATATCAAACTAC ATTCTTCAGAAAGATGTTTCTA GTATTTTCTTAGGTCACTTCC ATATGTAGTATGTACAGTGAGA CCACTTTTTAAAAAGCAATGAC TTAGGCAAACCAACCCTAATG GTTTGTTAGACCATTTCCCTGT TTTTAATTAAAAATCATAGGGT TGTGCTTCTGTATAAAGTTTGT ACATTTCACAATGTAAAATACT GACATT (SEQ ID NO: 359)
CTP109P	No significant match	ATGCAACCACACGGAATTTATT GAACATTTTCACAAGTGATTTC ATTAAAGGAAGGCTTTTTCGTG CCTATATTGGTTACCATCACTT TTGCCCCTATCACAATCTCATG GTGTAGTCCTTGCATGTAGCA GGAACTCAACAAATGTCTGCT AAATTGACAGATGGAGCCCCA GACGACCTAAAACTTGCACTTT AGAAGCACTTACTTCATCCTGA GCTATTATGAATAAGGAACTCA AGTGACTGTTAAAAGCATTCTA CTGATGAGTTGGTAATGTTCTA AAGCAACATATCTCAAAGGAAA GGATATTGAGTTTGTCTCCACC ATAAAATCCTATTTTTAAACAAA GGTACTCTAAAAATGGTCTT CCAAAGGCCTCAGCAGAGGTT CTAAAGAGATGTGACAATATG CCGAAGCTT (SEQ ID NO: 360)

CTP110A	No significant match	AACATATAAAAACATTTATTCA CTAGGAATAATTGTGGCAGAC ACAATCCAGTGAAAGCAGCTC AATCCTGCTCAGTTAGGCTAG TTGAAGAACCATACTTTAAAAA AAGAAAGGAAGACAGGCAAAC AAGTGTTTTACAGGAGCAAAC AAGTGTTTTACAGGAGCAACA GACTTCAAGGTCACCCCCACA AGACACCCTGCACAGCAGGGA CGGGGACAGGGAGGATGACC TCTTAGGGCCTGTGCCTTCGC AGAGGTGCTCGGCGGATGGG TGTGGTCTTCTTGGGTGTCTC CTCTTCTGTCATCTATGCCGAA GCTT (SEQ ID NO: 361)
CTP111A	No significant match	AAGCTTCGGCATAAACGATCC ATTCTCCTCGGCCTCCCAAAG TGCTAAGGTTCCAGGCGTGAA CCACCATGCCCAGCCTGTTCT TTTTTTTATCTCTAGGTGGTGC TCTCCAGCTGTAGTAGAAATA GCATTTGTATTGGATCTATTTT TTTAAATAGGGACTAAATACAG ACCATTTTGTTAGAGTGAAATG CCAAACAAGAACGAGATTTTC TCTTGGCT (SEQ ID NO: 362)
CTP116A	No significant match	AAAAGAGCATACTTATCAGTTG AATGGGGATAGAGGTTTTAGA TATTTTCCAAAATATTTATAAAA CACTTCATTGTTGAGAAATCAC TTACAGAATGGTGGCTATCAAA CAAATAATTATAAATTTTTAAAG CACAAGTCACATGTTTTGTAAC TCCTGTGTGAATTTATTTTAGC TGTGACATTTAATTGAAAACAT CAGATATGTTTTGGAAAAGTCT TAATTTGAGAACAACTGAAGGA AGTTAATCCAGAATCTATATGT AGTTAGCTATTAATGATGATGC TTTATTGACAGTATATTGCTAA TATATTTCTTCATGAAATCTGA AGTTAAATAGTTTCGTTGTGGA ATAGTGTCACTGTAACATTTCC CTTACGAAGTTCAATAAACCAG CTTTGCCATAAAAAAAAAA

CTP124B	No significant match	ATGGCAAAGCTGGTTTATTGAA CTTCGTAAGGGAAATGTTACA GTGACACTATTCCACAACGAA ATTATTTAACTTCAGATTTCAT GAAGAAATATATTAGCAATATA CTGTCAATAAAGCATCATCATT AATAGCTAACTACATATAGATT CTGGATTAACTTCCTTCAGTTG TTCTCAAATTAAGACTTTTCAAT TAAATGTCACAGGAGTTACAAAACA TTCACACAGGAGTTACAAAACA TGTGACTTGTGCTTTAAAAATT TATAATTATTTGTTTGATAGCC ACCATTCTGTAAGTGTTTTCTC AACAATGAAGTGTTTTATAAAT ATTTTGGAAAATTATATTTTATAAAT ATTTTGGAAAATTCAAAACC TCTATCCCCATTCAACTGATAA GTATGCTCTTTTAAAAAAAAAA
CTP126A	No significant match	AAAGAAAGTAATTATGGAACTA GATTTTTAACATTGTAAAATAC TAAATGATCCTTCAGTTGTAAG TTGATATATATTTGTAACCTTT GTGAAATTGTATCCTTATGAAA ATACCACTTTTGTGGAAGAGA GAATCCAACTATGTAATATTTA ATTAAAACAATCCATGTTTACC CTATCCCTGCTCAATTAAACAG TGTATATAGGTCTAATAATAGC TCTGGAGCAACTTTTATCATGA GTCAAATATATTAAACACATTG ATGTCTTCTTGGTATATCTGAA AACAAGAGGTAGAAGTCCTGT TGAGAGTCTTTAAAATAAACTA TTTTTACAAATGTAAAAAAAAAA
CTP133B	No significant match	CCAAAAAGAGCCATGCCCAGA GGGAAAGTTGGAAACGAAAGC CAAGTTTTCATTTAAAAGGAAA CANTAAAGAGGTTAGCCAGAG AAACTTGAACCAAAGAAAAGA

CTP134A	No significant match	CCAAAAAGAGCCATGCCCAGA GGGAAAGTTGGAAACGAAAGC CAAGTTTTCATTTAAAAGGAAA CATTAAAGAGGTTAGCCAGAG AAACTTGAACCAAAGAAAAGA
CTP143B	No significant match	AAGATTTCAAAGAGTGAGCAA GTGCATTAGCAGGGCAGAGAG AGAGGCAGCAGCAGACTCCCT GCTGAGCTGGGAGCCAACTTG GGACTCGATGCCGGGACCCC AGGATCATTACCCGAAGCTT (SEQ ID NO: 368)
CTP144B	No significant match	GGGTAAATCCGTCCAGTTTAC TGTAAATATGCCTTTGACAAAC TGGTAACTCATGTCCCATCCC AGTCCCGAGTACTGGACCAGG GAAACTCCAGCCACAGTTGAG GGAAGGCCACCTGTTGGCTCT GGGGCAGCAGGTCATCCAGT GGGCTTCAGGAGTCACCAGGC CTCTGACCAGTTCCTCCCCAC CAAGCAGTTTCAGAGTTGTCC GCCAAGTCTATTTCACACCTCT CGTGTATGCCGAAGCTT (SEQ ID NO: 369)
CTP145B	No significant match	GGACTGATAATAATAGGATTTT ATTTCTAAAATTTATCTTAGAG CTTTCAAAGAGTATAACACACA GATCTTTACCACCACACCCCC CTTGCCTATACAGGAAACAAC CAAGTTGTGAGAACATTTATCA TGCACAGACACATCAGGGCTT GCAGGTGCTACACAGGAATCA CAAATGCTGTTCCACATCATGT CTTCTGTTATGCCGAAGCTT (SEQ ID NO: 370)

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CTP149B	No significant match	AGGAAGAATAAAACATATAAA AACATTTATTCACTAGGAATAA TTGTGGCAGACACAATCCAGT GAAAGCAGCTCAATCCTGCTC AGTTAGGCTAGTTGAAGAACC ATACTTTAAAAAAAAGAAAGGAA GACAGGCAAACAAGTGTTTTA CAGGAGCAACAAGACTTCAAGG TCACCCCCACAAGACACCCTG CACAGCAGGGACGGGAC
CTP150A	No significant match	AGCATATGTAAGATCTCTGGCT TGTAGAAGACAAGTTTACATAG CACTTAAAAAACCATTTGTTAC ATTAAATGTCGAACTCAAACTT TTAAAGAGTATAGAGAACTACA AAATGGAAAAAGGAAGCAGAT ATACGCTTTATGAGGAAATTGT GTTAATGATCTCTCCTCTAAAA AAGGACTCTTCCCTATTATCAT AATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACA TTATGCCGAAGCTT (SEQ ID NO: 372)
CTP154A	No significant match	AGCATATGTAAGATCTCTGGCT TGTAGAAGACAAGTTTATATAG CACTTAAAAAACCATTTGTTAC ATTAAATGTCGAACTCAAACTT TTAAAGAGTATAGAGAACTACA AAATGGAAAAAGGAAGCAGAT ATACGCTTTATGAGGAAATTGT GTTAATGATCTCTCCTCTAAAA AAGGACTCTTCCCTATTATCAT AATGACCACACTGCCCGTCCT TAAAACCACTGGTCGCTGACA TTATGCCGAAGCTT (SEQ ID NO: 373)

CTP164A	No significant match	AAGCTTCGGCATACGGTGTGA GGTTACAGTCCAGTTTTGTGT GCTTTACTACACGGTTTTGTTA CAGGACTTCTGTGCATTGTAAA ACATAAACAGCATGGAAAAGG TTAAATACCTGTGTGCAGATTG TAAGATCTGGTCCGGACTTGC TGTGTATATTGTAACGTTAAGT GAAAAAGAACCCCCCTTTGTAT CATAGTCATGCGGTCTTATGTA TGATAAACAGTTGAATAATTTG TCCTCAGACTCTTTACTATGTT TTTTTAAAATTAAGAAAAATGTA AATATAGTAAAACTGG (SEQ ID NO: 374)
CTP179K	No significant match	AAGCTTACCAGGTAGAGGGAC TGTTGGAGGTATGGACGCACA CAGGAGGCCAGGCC
CTP185C	No significant match	CAGCGAAGAGGCATTAAAGAT TCATGCCATAAGTTTATTTACA AACATGTTGTGTATGTTGAATT CAAGAGATTGATCCATTTTTCA GAGACTGCACCTCTTAAAATGT TCCTTTTCACATCTGTTTAGTG GATCAAAAGCTT (SEQ ID NO: 376)
CTP197A	No significant match	ATGGTGTGTGTGGGTTCAA ATAGTTTATTCACCTCTGTAGT GGAAAAACAAGGAGAAATAAA ATCTGCTTACAATGGCCAAAAT TTATGGAGAAGCCCTAAAGTT GCTTTCCCCAAATCACAAATCT GATTCAAGAGAAGGAAAAAAA TGATGAAAAACATCTCATCACA CAAAACTCAGTGTGGTGTCTC TGATAGTCATCAGCAGA AGCTT (SEQ ID NO: 377)

CTP202C	No significant match	AGAAAAAAATTGATAATTAGG TGCAGATAGAAAATATGAATTA GAAGAGGTTAATTCAAGTGAT CAGCCTGAAAGTTCAGCTTCA TTAGCTTTGTGGTAAATCCACC ACTTCAGATAGTAACTAAAGTA AATTTTAAATTTCATAAGAATAA AGTAATCCCTGAAAAGAATTCA CTTTTTCCCAGAAGAAGCTTA TAATTAAAAAAAAAA
CTP208B	No significant match	CTAGAGGAAGTGCTTTTATTT TTAGATCAACCAAACATATTTA ATATAAAAACCTTTTAATATACA AACTGTAATCACAATTGCATCC ACGTAGCAGCGAGGGAATGG GGTGTTGCAGGAAGCTT (SEQ ID NO: 379)
CTP215B	No significant match	AAGCTTAGAGGCAGTAAACAG GAGCGTCCCCAAGAAAAAGAG GAAATTCTCTTCTAAGGAGGA GCCACTTAGCAGTGGACCTGA AGAGGCTGCTGGCAACAAGAG CGGCAGCTCCAAGAAAAAAAAAA
CTP222D	No significant match	AAGCTTACCAGGTGAAGAGTG GGGTTGTCATGACCTTGGCTA TGACGCCCAGCATTTCGAGGT GGCTCCCTCTATTCTTTACTTT GGGCATCATAGAAAACGTGTC TCTGGGGGATTAATCTTAGAG AAAAATAAAGCCTTTCTGCTG (SEQ ID NO: 381)

CTP309A	No significant match	TAACAGCATTATGTATCAAGTT ACCCTGTTCAAACAAGGAGCA GGCTTCCTCTTTTTGACTTAAA TGACATGAAGTGAGAAAAAAA ATGAGAATAACCNTCNNGGGA ATTATAGAGGGTTATAATTCTA TCCCNACTATTTCAATAAAAGC CATCACGGG (SEQ ID NO: 383) AAGCTTTCTCTGGCTTTCCGAA GGTAAAACTGTTGCCGAAGTT GCTGCGTTACAAGAGCGTATC CCAGAAACCATAAGGCTACAA CGCCGAAATTGGGAGCTACAT CAGTTTGAATCGATTCAAGAAG GTCATCGCTCAGGCCGTCCCA ATACACTGACCTCAAACTATCA GGCTCAAATCTTAGAGTGGGT CAACACAAGCCCACTCAATGC AGAACAAATCCGAGTCAAACT GCATGAAAAAACACGGTGTGTC
CTP308KK	No significant match	AAGCTTTCTCTGGATGAACAGT TAAATGGAACCTGGAAACCTC TTCCTGGGATTATTCCTTAAGC AAGGCAGTGTCAAAGGCAACC CTCCCAGCAAGACTTCAGAAA ACAGCTGGCAGAACTACAGGA TCTGGTGTCTGGTGTAAAAT ACTCTCCTCCCTGTTCAAATGA TTCAGAACATGTGCAAAGTGT GCTAGCTTTCATCACATATACA
стР306В	No significant match	AAGCTTCTGCTGGTATGGAAA GCCTTCAAGGAAGAGGGTAAT GAGGGGGAAGAAGTGCTGTG CCAAAGTGACAGCATTCAGTG AGGAATAAAGAAAGGAGCTCA GTGGTAGCAGGATGTTGAGCT TCCAAGAAAATCTGGTGGTGG TGAGAAAGTGGCTGCTGCA CTGCAAGGAAACAGAGCGATT AAAGAAAGAGAGATGTGACAGGG TAGGTGGAAGAGATAGCCAGA AGTTAGAAATGGGTTACACTG AAGAAGTAAATTATTTGATTAA ACAATAAGTAAATATACTGGGG ATACAAAAGCCTGATTTCTCC ACTGTCTCAGAAGGGATTTGC AAGTATGG (SEQ ID NO: 382)